Table H-2 – Barrier Locations and Elevations – Alternative 1 – Segment 2 (Cont'd)

Barrier No.	Receivers Protected (Receiverr No.)	Barrier Location / Hwy. Side	Barrier Stations ¹	Approximate Barrier Height, ft	Top of Barrier Elevation ² , ft
S718	R2.17 to R2.29	Shoulder & R/W/	712+15	12	40.7
		Northbound	712+49	12	38.8
			713+19	12	39.3
			713+19	14	41.3
			713+82	14	41.3
			714+41	14	41.2
			715+08	14	41.4
			715+69	14	41.4
			716+30	14	41.4
			716+92	14	41.4
			717+54	14	41.5
			718+12 ⁷	14	41.6
			718+73 ⁷	14	41.7
			719+32 ⁷	14	41.7
			719+94 ⁷	14	41.8
			720+00 ⁷	14	42.5
			720+50 ⁷	14	42.6
			721+00 ⁷	14	42.3
			721+50 ⁷	14	41.8
			722+00 ⁷	14	41.4
			722+50 ⁷	14	41.4
			723+00 ⁷	14	41.5
			723+50 ⁷	14	41.7
			723+50 ⁷	16	43.7
			724+00 ⁷	16	44.0
			724+50 ⁷	16	44.9
			725+00 ⁷	16	45.8
			725+50 ⁷	16	47.3
			726+00 ⁷	16	49.1
			726+50 ⁷	16	51.5
		Appro	ximate Length: 1,405	ft	

- 1 Stations correspond to that of I-405 mainline unless otherwise noted.
- 2 Top of barrier elevations shall take precedence over specified barrier heights for design and construction purposes.
- 3 In-kind replacement of an existing soundwall at new location with same height.
- 4 Replacement of existing soundwall at new location with new height.
- 5 Replacement of existing soundwall at same location with new height.
- $\ensuremath{\text{6}}$ Stations correspond to that of the south bound on ramp at Talbert Avenue.
- 7 Stations correspond to that of the northbound off ramp at Brookhurst Avenue.
- 8 Stations correspond to that of the southbound off ramp at Brookhurst Avenue.
- 9 Stations correspond to that of the northbound off ramp at Magnolia Street.

Table H-2 – Barrier Locations and Elevations – Alternative 1 – Segment 2 (Cont'd)

Barrier No.	Receivers Protected (Receiverr No.)	Barrier Location / Hwy. Side	Barrier Stations ¹	Approximate Barrier Height, ft	Top of Barrier Elevation ² , ft
S733	R2.34	Shoulder /	730+50 ⁸	12	47.6
		Southbound	731+00 ⁸	12	46.1
			731+40 ⁸	12	46.9
			731+50 ⁸	12	45.4
			732+00 ⁸	12	44.6
			732+50 ⁸	12	43.6
			732+50 ⁸	14	45.6
			733+00 ⁸	14	45.4
			733+50 ⁸	14	45.3
			734+00 ⁸	14	45.5
		Appro	ximate Length: 330	ft	ı
S746	R2.45, R45A	R/W /	745+00	12	45.0
	& R2.46	Northbound	745+50	12	45.0
			746+00	12	43.0
			746+50	12	42.0
			747+00	12	40.6
		Appro	ximate Length: 195	ft	
S747	R2.40 to R2.42	R/W /	741+60	12	42.5
		Southbound	743+33	12	41.3
			743+33	14	43.3
			744+21	14	43.3
			744+21	16	45.3
			745+09	16	45.2
			745+13	16	45.2
			745+80	16	45.0
			746+00	16	46.0
			746+50	16	47.0
			747+00	16	47.0
			747+50	16	47.0
			748+00	16	47.0
			748+50	16	47.0
			749+00	16	46.8
		Appro	ximate Length: 750	ft	Г
S765	R2.63 to R2.65	R/W /	763+98	16	46.0
		Southbound	764+14	16	46.0
			764+14	14	44.0
			765+58	14	43.0
			765+78	14	42.0
			766+00	14	42.0
			766+07	14	42.8
		Appro	ximate Length: 215	ft	

- 1 Stations correspond to that of I-405 mainline unless otherwise noted.
- 2 Top of barrier elevations shall take precedence over specified barrier heights for design and construction purposes.
- 3 In-kind replacement of an existing soundwall at new location with same height.
- 4 Replacement of existing soundwall at new location with new height.
- 5 Replacement of existing soundwall at same location with new height.
- 6 Stations correspond to that of the southbound on ramp at Talbert Avenue.
- 7 Stations correspond to that of the northbound off ramp at Brookhurst Avenue.
- $\ensuremath{\mathbf{8}}$ Stations correspond to that of the south bound off ramp at Brookhurst Avenue.
- 9 Stations correspond to that of the northbound off ramp at Magnolia Street.

Table H-2 – Barrier Locations and Elevations – Alternative 1 – Segment 2 (Cont'd)

	Receivers	Barrier		Approximate	
Barrier	Protected	Location /	Barrier	Barrier	Top of Barrier
No.	(Receiverr No.)	Hwy. Side	Stations ¹	Height, ft	Elevation ² , ft
0700	D0 57 to D0 50	D/M /	700 11	4.4	40.4
S766	R2.57 to R2.59	R/W /	766+14	14	46.4
		Northbound	766+46	14	46.5
			766+62	14	47.0
			767+06	14	47.0
		A	767+56	14	47.0
		Appro	ximate Length: 145	π	
S788	R2.80 to R2.82	Shoulder/	787+00 ⁹	12	41.4
		Northbound	787+50 ⁹	12	41.6
			788+00 ⁹	12	41.6
			788+50 ⁹	12	41.5
			788+90 ⁹	12	41.6
		Appro	ximate Length: 190	ft	
S792 ³	R2.80 to R2.87	Shoulder/	788+90 ⁹	12	41.6
		Northbound	789+00 ⁹	12	41.7
		Homboaria	789+50 ⁹	12	42.2
			790+00 ⁹	12	42.5
			790+50 ⁹	12	42.7
			791+00 ⁹	12	42.8
			791+50 ⁹	12	43.0
			792+00 ⁹	12	43.1
			792+50 ⁹	12	43.3
			793+00 ⁹	12	43.4
			793+50 ⁹	12	43.6
			794+00 ⁹	12	43.7
			794+50 ⁹	12	43.9
			795+00 ⁹	12	44.0
			795+50 ⁹	12	44.2
			796+00 ⁹	12	44.3
			796+50 ⁹	12	44.3
			797+00 ⁹	12	44.2
			797+25 ⁹	12	44.1
		Appro	ximate Length: 835	ft	

- 1 Stations correspond to that of I-405 mainline unless otherwise noted.
- 2 Top of barrier elevations shall take precedence over specified barrier heights for design and construction purposes.
- 3 In-kind replacement of an existing soundwall at new location with same height.
- 4 Replacement of existing soundwall at new location with new height.
- 5 Replacement of existing soundwall at same location with new height.
- $\ensuremath{\text{6}}$ Stations correspond to that of the south bound on ramp at Talbert Avenue.
- ${\bf 7}$ Stations correspond to that of the northbound off ramp at Brookhurst Avenue.
- ${\bf 8}$ Stations correspond to that of the southbound off ramp at Brookhurst Avenue.
- 9 Stations correspond to that of the northbound off ramp at Magnolia Street.

Table H-3 – Barrier Locations and Elevations – Alternative 1 – Segment 3

Barrier No.	Receivers Protected (Receiverr No.)	Barrier Location / Hwy. Side	Barrier Stations ¹	Approximate Barrier Height, ft	Top of Barrier Elevation ² , ft
S807	R3.23A, R3.23B,	Shoulder /	804+00 ⁶	12	56.9
	R3.24 & R3.25	Southbound	806+00 ⁶	12	49.6
		o o a ti illo a i i a	807+00 ⁶	12	46.4
			807+00 ⁶	14	48.4
			808+00 ⁶	14	47.0
			809+00 ⁶	14	47.7
			809+50 ⁶	14	47.9
			810+00 ⁶	14	48.1
		Appro	ximate Length: 580		
S811 ⁵	R3.24 & R3.25	R/W /	809+37 ⁶	14	44.9
0011	110.24 & 110.20	Southbound	810+17 ⁶	14	45.0
		Southbound	811+13 ⁶	14	45.0 45.0
			811+18 ⁶	14	45.0 45.0
			812+05 ⁶	14	45.1
			812+08 ⁶	14	45.1
		Appro	ximate Length: 285		45.1
2010 5	D0 00 0 D0 04		1		
S819 ⁵	R3.30 & R3.31	R/W	819+00	12	43.6
		Southbound	820+75 ximate Length: 175	12	42.6
				ιι 	
S828	R3.3 to R3.21	Shoulder /	814+75 ⁷	12	49.1
		Northbound	815+00 ⁷	12	49.3
			815+50 ⁷	12	49.5
			816+00 ⁷	12	49.7
			816+50 ⁷	12	49.9
			816+50 ⁷	14	51.9
			817+00 ⁷	14	52.1
			817+50 ⁷	14	52.0
			817+50 ⁷	16	54.0
			818+00 ⁷	16	53.9
			818+50 ⁷	16	53.8
			819+00 ⁷	16	53.6
			819+50 ⁷	16	53.2
			820+00 7	16	52.5
			820+50 ⁷	16	52.5
			821+00 ⁷	16	52.3
			821+50 ⁷	16	52.2
			822+00 ⁷	16	52.0
			822+50 ⁷	16	51.9
			823+00 ⁷	16	51.7
			823+50 ⁷	16	51.6
			824+00 ⁷	16	51.4
			824+50 ⁷	16	51.3
			825+00 ⁷	16	51.2
			825+50 ⁷	16	51.2
			826+00 ⁷	16	51.1

- 1 Stations correspond to that of I-405 mainline unless otherwise noted.
- 2 Top of barrier elevations shall take precedence over specified barrier heights for design and construction purposes.
- 3 In-kind replacement of an existing soundwall at new location with same height.
- 4 Replacement of existing soundwall at new location with new height.
- 5 Replacement of existing soundwall at same location with new height.
- ${\bf 6}$ Stations correspond to that of the southbound off ramp at Magnolia Street.
- 7 Stations correspond to that of the northbound on ramp at Magnolia Street.
- 8 Stations correspond to that of the southbound on ramp at Edinger Avenue.
- 9 Stations correspond to that of the southbound off ramp at Beach Boulevard.
- 10 Stations correspond to that of the southbound on ramp at Bolsa Avenue.

Table H-3 – Barrier Locations and Elevations – Alternative 1 – Segment 3 (Cont'd)

Barrier	Receivers Protected	Barrier Location /	Barrier	Approximate Barrier	Top of Barrier
No.	(Receiverr No.)	Hwy. Side	Stations ¹	Height, ft	Elevation ² , ft
S828		-	826+50	16	51.0
(Con't)			827+00	16	50.9
(00.1.1)			827+25	16	50.8
			827+50	16	50.8
			828+00	16	50.4
			830+00	16	48.8
			832+00	16	48.2
			834+00	16	47.7
			836+00	16	47.4
			836+00	14	45.4
			838+00	14	45.1
			838+00	12	43.1
			839+00	12	43.1
			840+00	12	43.0
			840+50	12	42.9
			841+00	12	42.8
		Appro	ximate Length: 2,625		
S841	R3.47 to R3.52	Shoulder /	837+50	12	43.2
0011	110.17 10 110.02	Southbound	838+00	12	43.1
		Coatriboaria	838+50	12	43.2
			839+00	12	43.2
			839+50	12	43.2
			840+00	12	43.2
			840+00	14	45.2
			840+50	14	45.1
			841+00	14	45.0
			841+00	16	47.0
			842+00	16	46.7
			842+25	16	46.7
			842+37	16	46.7
			842+50	16	46.6
			842+75	16	46.6
			843+00	16	46.6
		Appro	ximate Length: 550		10.0
S857	D3 56			10	40.0
303/	R3.56	Shoulder /	856+00 ⁸	12	43.2
		Southbound	856+25 ⁸ 856+50 ⁸	12	43.3
			850+50 ⁸	12	43.4
			857+00 ° 857+50 ⁸	12 12	43.6 44.2
			858+00 ⁸ 858+25 ⁸	12 12	44.7 45.0
		Appro	ximate Length: 225		45.0
S868	R3.63	R/W /	866+65 ⁹	16	45.4
		Northbound	867+24 ⁹	16	45.9
			868+31 ⁹	16	46.5
			869+59 ⁹	16	46.5
			870+45 ⁹	16	46.5
Notes:		Appro	ximate Length: 325	ft	

- 1 Stations correspond to that of I-405 mainline unless otherwise noted.
- $2\,\hbox{-}\, \mathsf{Top}\ \mathsf{of}\ \mathsf{barrier}\ \mathsf{elevations}\ \mathsf{shall}\ \mathsf{take}\ \mathsf{precedence}\ \mathsf{over}\ \mathsf{specified}\ \mathsf{barrier}\ \mathsf{heights}\ \mathsf{for}\ \mathsf{design}\ \mathsf{and}\ \mathsf{construction}\ \mathsf{purposes}.$
- 3 In-kind replacement of an existing soundwall at new location with same height.
- 4 Replacement of existing soundwall at new location with new height.
- 5 Replacement of existing soundwall at same location with new height.
- ${\bf 6}$ Stations correspond to that of the southbound off ramp at Magnolia Street.
- 7 Stations correspond to that of the northbound on ramp at Magnolia Street.
- $\ensuremath{\mathtt{8}}$ Stations correspond to that of the south bound on ramp at Edinger Avenue.
- 9 Stations correspond to that of the southbound off ramp at Beach Boulevard.
- ${\bf 10}$ Stations correspond to that of the southbound on ramp at Bolsa Avenue.

Table H-3 – Barrier Locations and Elevations – Alternative 1 – Segment 3 (Cont'd)

Barrier No. Protected Receiver No. Hwy. Side Stations Stations Height, ft Elevation Ro. Ro.		Receivers	Barrier			Approximate	
No. Receiver No. Hwy. Side Stations Height, ft Elevation ft	Barrier	Protected	Location /	Barrier			Top of Barrier
Septimizer Sep	No.	(Receiverr No.)	Hwy. Side	Stations ¹		Height, ft	
Septimizer Sep	S896	R3.76 & R3.77	R/W /	894+76		10	36.9
Second		110110 01110111	1000				
Approximate Length: 110 ft							
Second S			Appro		110		00.0
Northbound 897+00 8 40.7	0000 3	D0 70 to D0 00					40.5
Second	5902	R3.78 t0 R3.82					
Second			Northbound				
902+00 8 50.6 904+00 8 56.7 906+00 8 61.3							
Second Part							
Second Part							
Second S							
Second							61.3
Southbound 907+00 14 69.8 908+00 14 71.1 909+00 14 71.9 910+00 14 72.6 910+34 14 72.6 Approximate Length: 435 ft S910 4 R3.83 to R3.86A Shoulder / Northbound 908+00 10 67.0 908+00 12 69.0 910+00 12 70.5 910+00 14 72.5 912+00 14 72.3 912+50 14 71.8 Approximate Length: 650 ft S911 4 R3.87 to R3.89 Shoulder / Northbound 910+50 14 72.5 911+00 12 70.4 911+00 12 70.4 911+00 12 70.4 911+50 10 68.3 912+00 10 68.2 912+25 10 68.0			Appro	ximate Length:	915	ft	
Second	S909	R3.87 to R3.89	Shoulder /	906+00		14	68.4
Second			Southbound	907+00		14	69.8
Second				908+00		14	71.1
910+00							
Second							
S910 4 R3.83 to R3.86A Shoulder / 906+00 10 63.3 Northbound 908+00 10 67.0 908+00 12 69.0 910+00 12 70.5 910+00 14 72.5 912+00 14 71.8				910+34		14	72.6
Northbound 908+00 10 67.0 908+00 12 69.0 910+00 12 70.5 910+00 14 72.5 912+00 14 72.3 912+50 14 71.8 Approximate Length: 650 ft S911 4 R3.87 to R3.89 Shoulder / 910+34 14 72.5 911+00 14 72.5 911+00 14 72.4 911+00 12 70.4 911+50 12 70.3 911+50 10 68.3 912+00 10 68.2 912+25 10 68.0			Appro		435	ft	I.
Northbound 908+00 10 67.0 908+00 12 69.0 910+00 12 70.5 910+00 14 72.5 912+00 14 72.3 912+50 14 71.8 Approximate Length: 650 ft S911 4 R3.87 to R3.89 Shoulder / 910+34 14 72.5 911+00 14 72.5 911+00 14 72.4 911+00 12 70.4 911+50 12 70.3 911+50 10 68.3 912+00 10 68.2 912+25 10 68.0	S010 ⁴	P3 83 to P3 86A	Shoulder /	006+00		10	62.3
908+00 12 69.0 910+00 12 70.5 910+00 14 72.5 912+00 14 72.3 912+50 14 71.8 Approximate Length: 650 ft S911 R3.87 to R3.89 Shoulder / 910+34 14 72.6 Northbound 910+50 14 72.5 911+00 14 72.4 911+50 12 70.4 911+50 12 70.3 911+50 10 68.3 912+00 10 68.2 912+25 10 68.0	3910	113.03 10 113.00/					
910+00 12 70.5 910+00 14 72.5 912+00 14 72.3 912+50 14 71.8 Approximate Length: 650 ft S911 Approximate Length: 650 ft S911 Approximate L			Northbourid				
910+00							
912+00							
Second							
Approximate Length: 650 ft S911 ⁴ R3.87 to R3.89 Shoulder / 910+34 14 72.6 Northbound 910+50 14 72.5 911+00 14 72.4 911+50 12 70.4 911+50 12 70.3 911+50 10 68.3 912+00 10 68.2 912+25 10 68.0							
S911 ⁴ R3.87 to R3.89 Shoulder / 910+34 14 72.6 Northbound 910+50 14 72.5 911+00 14 72.4 911+50 12 70.4 911+50 12 70.3 911+50 10 68.3 912+00 10 68.2 912+25 10 68.0			Appro		GEO		/1.8
Northbound 910+50 14 72.5 911+00 14 72.4 911+00 12 70.4 911+50 12 70.3 911+50 10 68.3 912+00 10 68.2 912+25 10 68.0			Аррго	Aimate Length.	000	IL	<u> </u>
911+00 14 72.4 911+00 12 70.4 911+50 12 70.3 911+50 10 68.3 912+00 10 68.2 912+25 10 68.0	S911 ⁴	R3.87 to R3.89	Shoulder /	910+34			72.6
911+00 12 70.4 911+50 12 70.3 911+50 10 68.3 912+00 10 68.2 912+25 10 68.0			Northbound	910+50		14	72.5
911+50 12 70.3 911+50 10 68.3 912+00 10 68.2 912+25 10 68.0				911+00		14	72.4
911+50 10 68.3 912+00 10 68.2 912+25 10 68.0				911+00		12	70.4
912+00 10 68.2 912+25 10 68.0				911+50		12	70.3
912+00 10 68.2 912+25 10 68.0				911+50		10	68.3
912+25 10 68.0				912+00			68.2
				912+25			68.0
Approximate Length: 190 ft			Appro		190	ft	

- 1 Stations correspond to that of I-405 mainline unless otherwise noted.
- 2 Top of barrier elevations shall take precedence over specified barrier heights for design and construction purposes.
- 3 In-kind replacement of an existing soundwall at new location with same height.
- 4 Replacement of existing soundwall at new location with new height.
- 5 Replacement of existing soundwall at same location with new height.
- ${\bf 6}$ Stations correspond to that of the southbound off ramp at Magnolia Street.
- ${\bf 7}$ Stations correspond to that of the northbound on ramp at Magnolia Street.
- ${\bf 8}$ Stations correspond to that of the southbound on ramp at Edinger Avenue.
- $\bf 9$ Stations correspond to that of the southbound off ramp at Beach Boulevard.
- 10 Stations correspond to that of the southbound on ramp at Bolsa Avenue.

Table H-3 – Barrier Locations and Elevations – Alternative 1 – Segment 3 (Cont'd)

	Receivers	Barrier		Approximate	
Barrier	Protected	Location /	Barrier	Barrier	Top of Barrier
No.	(Receiverr No.)	Hwy. Side	Stations ¹	Height, ft	Elevation ² , ft
S916	R3.85 to R3.86A	Shoulder /	912+50	14	71.8
3910	K3.03 to K3.00A				
		Northbound	914+00	14	70.3
			915+00	14	68.8
			916+00	14	67.2
			917+00	14	64.5
		A	918+00	14	61.8
		Appro	ximate Length: 550	π	
S141 ³	R3.90 to R3.98	Shoulder /	912+25	8	66.0
		Southbound	912+50	8	65.7
			913+00	8	65.3
			913+50	8	64.8
			914+00	8	64.3
			915+00	8	62.6
			916+00	8	60.9
			918+00	8	55.7
			920+00	8	50.0
			920+50	8	48.4
			921+00	8	47.9
			922+00	8	45.7
			923+00	8	44.3
			924+00	8	42.8
			924+00	10	44.8
			925+00	10	43.5
			925+50	10	42.9
			926+00	10	42.2
			926+93	10	41.7
		Appro	ximate Length: 1,470	ft	•
S935	R3.99 to R3.100A	R/W /	932+90 ¹⁰	14	43.2
3333	13.33 to 13.100A		932+90 ¹⁰ 933+11 ¹⁰		
		Southbound	933+11 ¹⁰ 934+23 ¹⁰	14	42.5
				14	42.0
			934+65 ¹⁰	14	42.4
			935+00 ¹⁰	14	42.5
			935+00 ¹⁰	12	40.5
			936+20 10	12	39.6
			936+20 10	10	37.6
		A	936+75 ¹⁰	10	37.0
		Appro	ximate Length: 335	π	

- 1 Stations correspond to that of I-405 mainline unless otherwise noted.
- 2 Top of barrier elevations shall take precedence over specified barrier heights for design and construction purposes.
- 3 In-kind replacement of an existing soundwall at new location with same height.
- 4 Replacement of existing soundwall at new location with new height.
- 5 Replacement of existing soundwall at same location with new height.
- 6 Stations correspond to that of the southbound off ramp at Magnolia Street.
- 7 Stations correspond to that of the northbound on ramp at Magnolia Street.
- 8 Stations correspond to that of the southbound on ramp at Edinger Avenue.
- 9 Stations correspond to that of the southbound off ramp at Beach Boulevard.
- 10 Stations correspond to that of the southbound on ramp at Bolsa Avenue.

Table H-4 – Barrier Locations and Elevations – Alternative 1 – Segment 4

S182 3	Barrier No.	Receivers Protected (Receiverr No.)	Barrier Location / Hwy. Side	Barrier Stations¹	Approximate Barrier Height, ft	Top of Barrier Elevation ² , ft
R4.22 Northbound 954+00 10 42.6 44.0 956+00 10 44.0 956+00 10 44.0 956+00 10 44.0 956+00 10 46.7 960+00 10 50.4 962+00 10 55.4 964+00 10 60.8 966+00 10 64.6 968+00 10 66.8 971+00 10 68.3 970+00 10 68.5 Part 10 10 68	S182 ³	R4.14A to	Shoulder /	952+90	10	42.4
956+00						
958+00						
Section Sect						
962+00						
964+00						
968+00				964+00		
969+00 10 68.3 970+00 10 68.8 971+00 10 68.5				966+00	10	64.6
S972 Approximate Length: 1,810 ft				968+00	10	67.7
S972 R4.23 to R4.24				969+00	10	68.3
R4.23 to R4.24 to R4.25 R4.25 to R4.25 R4.25 R4.25 R4.26 R4.26 R4.26 R4.27 to R4.26 R4.27 to R4.28 R4.29 to R4.29 R4.29 to R4.29 to R4.29 R4.29 to R4				970+00	10	68.8
S972 R4.23 to R4.24 Shoulder / 971+00 12 70.5 70.1 972+00 14 72.1 974+00 14 69.3 974+10 14 69.1 69.1				971+00	10	68.5
R4.24 Northbound 972+00 12 70.1 972+00 14 72.1 974+00 14 69.3 974+10 14 69.1 Approximate Length: 310 ft S978 R4.24 to R4.25 Shoulder / Northbound 976+00 14 65.2 978+00 14 65.2 978+00 12 58.0 980+00 12 58.0 980+00 12 52.4 982+00 12 48.4 983+50 12 47.1 9834+50 12 46.5 984+00 12 45.8 Approximate Length: 990 ft S995 R4.1 R/W Line / 993+63 16 45.9 Southbound 994+07 16 45.9 994+65 16 46.0 994+65 16 46.0 994+65 12 42.0 995+59 12 42.3 Approximate Length: 200 ft S998 R4.32 R/W Line / 997+11 16 45.9 Northbound 998+00 16 47.7			Appro	ximate Length: 1,	810 ft	
972+00	S972 ⁴	R4.23 to	Shoulder /	971+00	12	70.5
S978 R4.24 to R4.25 Shoulder / Northbound Shoulder / Northbound Shoulder / Sho		R4.24	Northbound	972+00	12	70.1
S978 R4.24 to R4.25 Shoulder / Shoulde				972+00	14	72.1
Approximate Length: 310 ft				974+00	14	69.3
S978 R4.24 to R4.25 Shoulder / 974+10 14 69.1				974+10	14	69.1
R4.25 Northbound 976+00 14 65.2 978+00 14 60.0 978+00 12 58.0 980+00 12 52.4 982+00 12 48.4 983+50 12 46.5 984+00 12 45.8 Approximate Length: 990 ft S995 5 R4.1 R/W Line / 993+63 16 45.9 994+65 16 46.0 994+65 12 42.0 995+59 12 42.3 Approximate Length: 200 ft S998 R4.32 R/W Line / 997+11 16 45.9 Northbound 998+00 16 47.7 998+50 16 47.8			Appro	ximate Length:	310 ft	
978+00	S978	R4.24 to	Shoulder /	974+10	14	69.1
978+00 12 58.0 980+00 12 52.4 982+00 12 48.4 983+00 12 47.1 983+50 12 46.5 984+00 12 45.8		R4.25	Northbound	976+00	14	65.2
Section Sect				978+00	14	60.0
System				978+00	12	58.0
983+00 12 47.1 983+50 12 46.5 984+00 12 45.8				980+00	12	52.4
983+50 12 46.5 984+00 12 45.8				982+00	12	48.4
S995 R4.1 R/W Line / Southbound S994+65 12 45.8				983+00	12	47.1
Approximate Length: 990 ft				983+50	12	46.5
S995 5 R4.1 R/W Line / Southbound 993+63 16 45.9 45.9 45.9 45.9 994+65 16 46.0 994+65 12 42.0 42.0 995+59 12 42.3				984+00	12	45.8
Southbound 994+07 16 45.9 994+65 16 46.0 994+65 12 42.0 995+59 12 42.3 Approximate Length: 200 ft S998 R4.32 R/W Line / 997+11 16 45.9 Northbound 998+00 16 47.7 998+50 16 47.8			Appro	ximate Length:	990 ft	
Southbound 994+07 16 45.9 994+65 16 46.0 994+65 12 42.0 995+59 12 42.3 Approximate Length: 200 ft S998 R4.32 R/W Line / 997+11 16 45.9 Northbound 998+00 16 47.7 998+50 16 47.8	S995 ⁵	R4.1	R/W Line /	993+63	16	45.9
S998 R4.32 R/W Line / Northbound 998+00 16 47.7 998+50 16 46.0 46.0 46.0 994+65 12 42.0 12 Northbound 997+11 16 45.9 16 47.7 998+50 16			Southbound			45.9
S998 R4.32 R/W Line / Northbound 998+50 12 42.0 Horthbound 997+11 16 45.9 16 47.7 16 47.8						
995+59 12 42.3 Approximate Length: 200 ft S998 R4.32 R/W Line / Northbound 997+11 16 45.9 Northbound 998+00 16 47.7 998+50 16 47.8				994+65		
Approximate Length: 200 ft S998 R4.32 R/W Line / 997+11 16 45.9 Northbound 998+00 16 47.7 998+50 16 47.8						42.3
Northbound 998+00 16 47.7 998+50 16 47.8			Appro	ximate Length:	200 ft	
Northbound 998+00 16 47.7 998+50 16 47.8	S998	R4.32	R/W Line /	997+11	16	45.9
998+50 16 47.8						
Approximate Length: 140 ft			Appro		140 ft	

- 1 Stations correspond to that of I-405 mainline unless otherwise noted.
- 2 Top of barrier elevations shall take precedence over specified barrier heights for design and construction purposes.
- 3 In-kind replacement of an existing soundwall at new location with same height.
- 4 Replacement of existing soundwall at new location with new height.
- 5 Replacement of existing soundwall at same location with new height.
- 6 Stations correspond to that of the southbound on ramp from Westminster Blvd.
- 7 Stations correspond to that of the northbound off ramp (loop) to Westminster Blvd.
- 8 Stations correspond to that of the northbound on ramp from Westminster Blvd.
- 9 Stations correspond to that of the southbound on ramp (loop) from Valley View St.

Table H-4 – Barrier Locations and Elevations – Alternative 1 – Segment 4 (Cont'd)

	Receivers	Barrier		Approximate	
Barrier	Protected	Location /	Barrier	Barrier	Top of Barrier
No.	(Receiverr No.)	Hwy. Side	Stations ¹	Height, ft	Elevation ² , ft
S1006	R4.33A and	R/W Line /	1004+70 ⁷	10	41.9
	R4.33	Northbound	1005+00 ⁷	10	41.9
		1101111000110	1006+00 7	10	42.1
			1007+00 ⁷	10	42.1
			1008+00 7	10	42.4
		Appro	ximate Length: 330		ı
04000	D4.04:		6		
S1009	R4.8 to	R/W Line	1005+65 ⁶	12	43.2
	R4.13	Transition to	1006+00 ⁶	12	42.8
		Retaining Wall /	1006+50 ⁶	12	42.6
		Southbound	1007+00 6	12	42.7
			1007+50 ⁶	12	42.9
			1008+00 6	12	42.8
			1008+50 ⁶	12	43.8
			1009+00 ⁶	12	45.0
			1009+50 ⁶	12	46.4
			1010+00 ⁶	12	47.9
			1010+50 ⁶	12	49.5
			1011+00 ⁶	12	51.2
			1011+50 ⁶	12	52.8
			1012+00 ⁶	12	54.4
			1012+50 ⁶	12	55.3
			1013+00 ⁶	12	56.2
			1013+50 ⁶	12	56.3
		A	1014+00 ⁶	12	56.4
		Appro	ximate Length: 850	Ħ	ı
S1016	R4.64C and	Ramp	1013+00 8	14	49.7
	R4.64D	Shoulder /	1014+00 ⁸	14	46.4
		Northbound	1015+00 ⁸	14	44.5
			1016+00 ⁸	14	43.9
			1017+00 8	14	43.4
			1017+00 8	16	45.4
			1018+00 ⁸	16	45.3
			1018+45 ⁸	16	45.6
		Appro	ximate Length: 540	ft	
S1020 ⁴	R4.64 and	Ramp	1018+45 ⁸	16	45.6
	R4.65	Shoulder	1019+00 ⁸	16	45.9
		Transition to	1020+00 ⁸	16	46.9
		R/W Line /	1021+00 8	16	48.5
		Northbound	1022+00 ⁸	16	49.5
			1023+65 ⁸	16	49.7
			1024+00	16	47.1
		Appro	ximate Length: 550		
84004	D4.05			40	47.4
S1024	R4.65	Inside R/W /	1024+00	16	47.1
		Northbound	1024+50	16	47.3
			1025+00	16	47.5
			1026+00	16	47.5
		Appro:	ximate Length: 200	π	

- 1 Stations correspond to that of I-405 mainline unless otherwise noted.
- $\hbox{2-Top of barrier elevations shall take precedence over specified barrier heights for design and construction purposes.}$
- 3 In-kind replacement of an existing soundwall at new location with same height.
- ${\bf 4}$ Replacement of existing soundwall at new location with new height.
- 5 Replacement of existing soundwall at same location with new height.
- ${\bf 6}$ Stations correspond to that of the southbound on ramp from Westminster Blvd.
- $\overline{\text{7}}$ Stations correspond to that of the northbound off ramp (loop) to Westminster Blvd.
- ${\bf 8}$ Stations correspond to that of the northbound on ramp from Westminster Blvd.
- $\bf 9$ Stations correspond to that of the southbound on ramp (loop) from Valley View St.

Table H-4 – Barrier Locations and Elevations – Alternative 1 – Segment 4 (Cont'd)

Barrier No.	Receivers Protected (Receiverr No.)	Barrier Location / Hwy. Side	Barrier Stations ¹	Approximate Barrier Height, ft	Top of Barrier Elevation ² , ft
S1026	R4.66	Inside R/W /	1026+50	16	48.6
		Northbound	1027+00	16	48.8
			1027+98	16	46.1
		Appro	ximate Length: 150	ft	
S1028 ⁵	R4.66	R/W Line /	1027+98	16	46.1
		Northbound	1028+70	16	46.4
		Appro	ximate Length: 75	ft	
S1079 ⁵	R4.60	R/W Line /	1078+93	14	38.0
		Northbound	1080+22	14	38.0
		Appro	ximate Length: 130	ft	
S1083	R4.59 to	R/W Line /	1080+22	14	39.7
	R4.62	Southbound	1080+60	14	40.3
			1080+60	12	38.3
			1080+78	12	37.4
			1081+22	12	37.8
			1081+97 ⁹	12	36.8
			1082+85 ⁹	12	37.7
			1083+08 ⁹	12	38.2
			1083+33 ⁹	12	38.1
			1084+06 ⁹	12	37.2
			1084+14 ⁹	12	37.3
			1084+30 ⁹	12	37.2
		Appro	ximate Length: 555	ft	

- 1 Stations correspond to that of I-405 mainline unless otherwise noted.
- 2 Top of barrier elevations shall take precedence over specified barrier heights for design and construction purposes.
- 3 In-kind replacement of an existing soundwall at new location with same height.
- 4 Replacement of existing soundwall at new location with new height.
- 5 Replacement of existing soundwall at same location with new height.
- ${\bf 6}$ Stations correspond to that of the southbound on ramp from Westminster Blvd.
- 7 Stations correspond to that of the northbound off ramp (loop) to Westminster Blvd.
- 8 Stations correspond to that of the northbound on ramp from Westminster Blvd.
- 9 Stations correspond to that of the southbound on ramp (loop) from Valley View St.

Table H-5 – Barrier Locations and Elevations – Alternative 1 – Segment 5

Barrier No.	Receivers Protected (Receiver No.)	Barrier Location / Hwy. Side	Barrier Stations ¹	Approximate Barrier Height, ft	Top of Barrier Elevation ² , ft
S1162	R5.39 and	Shoulder /	1157+00	12	30.0
	R5.40	Northbound	1158+00	12	31.3
			1159+00	12	31.4
			1160+00	12	31.4
			1161+00	12	31.5
			1162+00	12	31.5
			1163+00	12	31.5
			1164+00	12	31.5
		Appro	ximate Length: 700	ft	

- 1 Stations correspond to that of I-405 mainline unless otherwise noted.
- 2 Top of barrier elevations shall take precedence over specified barrier heights for design and construction purposes.
- 3 In-kind replacement of an existing soundwall at new location with same height.
- 4 Replacement of existing soundwall at new location with new height.
- 5 Replacement of existing soundwall at same location with new height.

Table H-6 – Barrier Locations and Elevations – Alternative 1 – Segment 6

Barrier No.	Receivers Protected (Receiverr No.)	Barrier Location / Hwy. Side	Barrier Stations ¹	Approximate Barrier Height, ft	Top of Barrier Elevation ² , ft
NO.	(Receiven No.)	nwy. Side	Stations	Height, it	Elevation , it
S431 ³	R6.1 to	Shoulder /	1203+30	10	24.3
	R6.11	Southbound	1204+00	10	24.2
			1206+00	10	24.4
			1207+70	10	24.6
			1207+70	14	28.6
			1208+00	14	28.6
			1210+00	14	29.1
			1212+00	14 14	29.5
			1214+00 1216+00	14	30.0 30.2
			1218+00	14	30.2
			1220+00	14	31.1
			1220+30 ⁷	14	31.4
	-	Appro	ximate Length: 1,700		01.4
		7.55.0			
S434 ³	R6.26 to	Shoulder /	1217+50 ⁶	14	27.3
	R6.29	Northbound	1218+00 ⁶	14	27.1
			1218+50 ⁶	14	27.2
			1219+00 ⁶	14	27.5
			1220+00 ⁶	14	28.1
			1221+00 ⁶	14	28.4
			1222+00 ⁶	14	28.3
			1223+00 ⁶	14	28.3
			1224+00 ⁶	14	28.7
			1225+00 ⁶	14	29.2
			1226+00 ⁶	14	30.5
	-	Appro	ximate Length: 840	ft	
S445 ³	R6.12 to	Shoulder /	1220+30 ⁷	14	31.4
0110	R6.17	Southbound	1220+30 ⁷	14	32.2
	10.17	Southbound	1221+00 1222+00 ⁷	14	
			1222+00 1223+00 ⁷		33.3 34.4
				14	
			1224+00 ⁷	14	35.3
			1225+00 7	14	36.2
			1226+00 7	14	36.9
			1227+00 ⁷	14	37.0
			1228+00 ⁷	14	36.2
			1229+00 ⁷	14	34.9
	_	A	1230+00 7	14	33.8
		Appro	ximate Length: 975	π	<u> </u>
S1226	R6.35 to	R/W /	1223+89	16	27.8
	R6.36A	Northbound	1223+93	16	26.8
			1223+96	16	26.8
			1224+78	16	26.8
			1226+02	16	26.7
			1227+13	16	26.6
			1228+13	16	26.8
		Appro	ximate Length: 440	ft	
S464 ³	R6.45 and	R/W /	1244+01	16	27.1
	R6.46	Northbound	1244+39	16	26.0
			1245+43	16	27.0
	1	Annro	ximate Length: 140		•

- 1 Stations correspond to that of I-405 mainline.
- 2 Top of barrier elevations shall take precedence over specified barrier heights for design and construction purposes.
- 3 This soundwall is a replace-in-kind soundwall.
- ${\tt 4-This\ soundwall\ is\ a\ replacement\ soundwall\ which\ has\ been\ raised\ higher\ than\ the\ soundwall\ it\ replaces.}$
- ${\bf 5}$ This soundwall raises the height of an existing soundwall.
- $\ensuremath{\text{6}}$ Stations correspond to that of the northbound SR-22 on ramp from Old Ranch Pkwy.
- 7 Stations correspond to that of the eastbound SR-22 to southbound I-405 connector.

Table H-7 – Barrier Locations and Elevations – Alternative 2 – Segment 1

Barrier No.	Receivers Protected (Receiverr No.)	Barrier Location / Hwy. Side	Barrier Stations ¹	Approximate Barrier Height, ft	Top of Barrier Elevation ² , ft
S649 ³	R1.95 to R1.103	Shoulder /	641+50	12	41.3
		Southbound	642+00	12	41.5
			643+00	12	43.6
			644+00	12	44.5
			645+00	12	45.9
			646+00	12	47.7
			647+00	12	49.5
			648+00	12	51.3
			649+00	12	53.1
			650+00	12 ⁶	55.2
			651+00	12 ⁶	56.5
			652+00	12 ⁶	58.0
			653+00	12 ⁶	59.2
			654+00	12 ⁶	59.7
			655+00	12 ⁶	60.9
			655+50	12 ⁶	61.9
			655+85	12 ⁶	62.7
		Appro	ximate Length: 1,430	ft	_

- 1 Stations correspond to that of I-405 mainline unless otherwise noted.
- 2 Top of barrier elevations shall take precedence over specified barrier heights for design and construction purposes.
- 3 In-kind replacement of an existing soundwall at new location with same height.
- 4 Replacement of existing soundwall at new location with new height.
- 5 Replacement of existing soundwall at same location with new height.
- 6 Stations correspond to that of the southbound on ramp at Ellis Avenue.

Table H-8 – Barrier Locations and Elevations – Alternative 2 – Segment 2

Barrier	Receivers Protected	Barrier Location /	Barrier	Approximate Barrier	Top of Barrier
No.	(Receiverr No.)	Hwy. Side	Stations ¹	Height, ft	Elevation ² , ft
S699 ³	R2.1 to R2.4A	R/W /	695+43	16	44.9
		Southbound	696+00	16	44.9
			697+00	16	45.2
			698+00	16	45.4
			699+00	16	46.2
			700+00	16	47.0
			700+37	16	47.5
			701+00	16	48.0
			701+10	16	48.0
		Appro	ximate Length: 570	ft	
S705 ³	R2.5 to R2.9	Shoulder /	701+10	12	44.0
		Southbound	702+00	12	44.9
			703+00	12	45.5
			704+00 ⁶	12	45.9
			705+00 ⁶	12	46.3
			706+00 ⁶	12	45.7
			706+50 ⁶	12	45.1
			707+00 ⁶	12	44.4
			707+50 ⁶	12	44.0
			708+00 ⁶	12	43.7
			708+11 ⁶	12	43.8
		Appro	ximate Length: 705	ft	
S708	R2.13	Shoulder /	706+00	12	42.2
		Northbound	707+00	12	41.8
			708+00	12	41.3
			708+42	12	41.1
		Appro	ximate Length: 240		
S710 ³	R2.14 to R2.16	Shoulder /	708+42	12	41.1
3/10	NZ. 14 (U NZ. 10	Northbound	708+42 709+00	12	41.1
		NOTTIDOUTIO	709+00 710+00	12	40.9
			711+00	12	40.8
			712+00	12	40.4
		Annro	712+15 ximate Length: 375	12	40.7
Notes:		Appio	Aimate Length. 3/5	IL	

- 1 Stations correspond to that of I-405 mainline unless otherwise noted.
- 2 Top of barrier elevations shall take precedence over specified barrier heights for design and construction purposes.
- 3 In-kind replacement of an existing soundwall at new location with same height.
- 4 Replacement of existing soundwall at new location with new height.
- 5 Replacement of existing soundwall at same location with new height.
- 6 Stations correspond to that of the southbound on ramp at Talbert Avenue.
- 7 Stations correspond to that of the northbound off ramp at Brookhurst Avenue.
- 8 Stations correspond to that of the southbound off ramp at Brookhurst Avenue.
- $\boldsymbol{9}$ Stations correspond to that of the northbound on ramp at Warner Avenue.
- 10 Stations correspond to that of the northbound off ramp at Magnolia Street.

Table H-8 – Barrier Locations and Elevations – Alternative 2 – Segment 2 (Cont'd)

Barrier	Receivers Protected	Barrier Location /	Barrier	Approximate Barrier	Top of Barrier
No.	(Receiverr No.)	Hwy. Side	Stations ¹	Height, ft	Elevation ² , ft
S718	R2.17 to R2.29	Shoulder & R/W/	712+15	12	40.7
		Northbound	712+49	12	38.8
			713+19	12	39.3
			713+19	14	41.3
			713+82	14	41.3
			714+41	14	41.2
			715+08	14	41.4
			715+69	14	41.4
			716+30	14	41.4
			716+92	14	41.4
			717+54	14	41.5
			718+12 ⁷	14	41.6
			718+73 ⁷	14	41.7
			719+32 ⁷	14	41.7
			719+94 ⁷	14	41.8
			720+00 ⁷	14	42.4
			720+50 ⁷	14	42.5
			721+00 ⁷	14	42.2
			721+50 ⁷	14	41.7
			722+00 ⁷	14	41.3
			722+00 ⁷	16	43.3
			722+50 ⁷	16	43.4
			723+00 ⁷	16	43.5
			723+50 ⁷	16	43.7
	724+00 ⁷	16	44.0		
			724+50 ⁷	16	44.8
			725+00 ⁷	16	45.8
			725+50 ⁷	16	47.2
			726+00 ⁷	16	49.1
			726+50 ⁷	16	51.4
			726+50 ⁷	14	49.4
			727+00 ⁷	14	42.0
			727+00 ⁷	12	40.0
			727+50 ⁷	12	40.8
			728+00 ⁷	12	41.8
			728+50 ⁷	12	43.2
			729+00 ⁷	12	45.1
			729+50 ⁷	12	47.4
		Approx	kimate Length: 1,898	ft	

- 1 Stations correspond to that of I-405 mainline unless otherwise noted.
- 2 Top of barrier elevations shall take precedence over specified barrier heights for design and construction purposes.
- 3 In-kind replacement of an existing soundwall at new location with same height.
- 4 Replacement of existing soundwall at new location with new height.
- ${\bf 5}$ Replacement of existing soundwall at same location with new height.
- 6 Stations correspond to that of the southbound on ramp at Talbert Avenue.
- 7 Stations correspond to that of the northbound off ramp at Brookhurst Avenue.
- 8 Stations correspond to that of the southbound off ramp at Brookhurst Avenue.
- 9 Stations correspond to that of the northbound on ramp at Warner Avenue.
- 10 Stations correspond to that of the northbound off ramp at Magnolia Street.

Table H-8 – Barrier Locations and Elevations – Alternative 2 – Segment 2 (Cont'd)

Barrier No.	Receivers Protected (Receiverr No.)	Barrier Location / Hwy. Side	Barrier Stations ¹	Approximate Barrier Height, ft	Top of Barrier Elevation ² , ft
		-			
S733	R2.34	Shoulder /	730+50 ⁸	12	47.1
		Southbound	731+00 8	12	46.0
			731+40 8	12	45.4
			731+50 ⁸	12	45.3
			732+00 ⁸	12	44.5
			732+50 ⁸	12	43.7
			733+00 ⁸	12	43.4
			733+50 ⁸	12	43.3
			734+00 ⁸	12	43.5
		Appro	ximate Length: 330	ft	ı
S745	R2.40 to R2.42	R/W /	741+60	12	42.5
		Southbound	743+33	12	41.3
			743+33	14	43.3
			744+21	14	43.3
			745+09	14	43.2
			745+13	14	43.2
			745+80	14	43.0
			746+00	14	44.0
			746+50	14	45.0
			747+00	14	45.0
			747+50	14	45.0
			748+00	14	45.0
			748+50	14	45.0
			749+00	14	44.8
		Appro	ximate Length: 750	ft	
S746	P2 45 P45A	R/W /	745 : 00	12	45.0
3/40	R2.45, R45A & R2.46	Northbound	745+00 745+50	12	45.0 45.0
	Q N∠.40	NOTHIDOUNG			
			746+00 746+50	12 12	43.0 42.0
				12	
	•	Appro	747+00 ximate Length: 195		40.6
S765	R2.63 to R2.65	R/W /	763+98	16	46.0
		Southbound	764+14	16	46.0
			764+14	14	44.0
			765+58	14	43.0
			765+78	14	42.0
			766+00	14	42.0
			766+07	14	42.8
		Appro	ximate Length: 215	ft	

- 1 Stations correspond to that of I-405 mainline unless otherwise noted.
- 2 Top of barrier elevations shall take precedence over specified barrier heights for design and construction purposes.
- 3 In-kind replacement of an existing soundwall at new location with same height.
- 4 Replacement of existing soundwall at new location with new height.
- 5 Replacement of existing soundwall at same location with new height.
- 6 Stations correspond to that of the southbound on ramp at Talbert Avenue.
- 7 Stations correspond to that of the northbound off ramp at Brookhurst Avenue.
- 8 Stations correspond to that of the southbound off ramp at Brookhurst Avenue.
- 9 Stations correspond to that of the northbound on ramp at Warner Avenue.
- 10 Stations correspond to that of the northbound off ramp at Magnolia Street.

Table H-8 – Barrier Locations and Elevations – Alternative 2 – Segment 2 (Cont'd)

	Receivers	Barrier		Approximate	
Barrier	Protected	Location /	Barrier	Barrier	Top of Barrier
No.	(Receiverr No.)	Hwy. Side	Stations ¹	Height, ft	Elevation ² , ft
S766	R2.57 to R2.59	R/W /	766+14	14	46.4
		Northbound	766+46	14	46.5
			766+62	14	47.0
			767+06	14	47.0
			767+56	14	47.0
		Appro	ximate Length: 145	ft	T
S786	R2.80 & R2.81	Shoulder/	783+00 ⁹	16	66.5
		Northbound	783+50 ⁹	16	67.1
			784+00 ⁹	16	67.7
			784+50 ⁹	16	68.4
			785+00 ⁹	16	69.0
			785+50 ⁹	16	69.6
			786+00 ⁹	16	70.2
			786+00 ⁹	14	68.2
			786+50 ⁹	14	68.3
			787+00 ⁹	14	68.1
		Appro	ximate Length: 395		0011
S788	R2.80 to R2.82	Shoulder/	787+00 ¹⁰	16	45.4
3766	112.00 to 112.02	Northbound	787+50 ¹⁰	16	45.4 45.6
		Northbourid	787+30 788+00 ¹⁰	16	45.6 45.6
			788+50 ¹⁰	16	45.5 45.5
			788+50 ¹⁰	14	
			788+90 ¹⁰	14	43.5 43.6
		Appro	ximate Length: 190		43.0
			-		
S792 ³	R2.80 to R2.87	Shoulder/	788+90 ¹⁰	12	41.6
		Northbound	789+00 ¹⁰	12	41.7
			789+50 ¹⁰	12	42.2
			790+00 ¹⁰	12	42.5
			790+50 ¹⁰	12	42.7
			791+00 ¹⁰	12	42.8
			791+50 ¹⁰	12	43.0
			792+00 ¹⁰	12	43.1
			792+50 ¹⁰	12	43.3
			793+00 ¹⁰	12	43.4
			793+50 ¹⁰	12	43.6
			794+00 ¹⁰	12	43.7
			794+50 ¹⁰	12	43.9
			795+00 ¹⁰	12	44.0
			795+50 ¹⁰	12	44.2
			796+00 ¹⁰	12	44.3
			796+50 ¹⁰	12	44.3
			797+00 ¹⁰	12	44.2
			797+25 ¹⁰	12	44.1
		Appro	ximate Length: 835	ft	

- 1 Stations correspond to that of I-405 mainline unless otherwise noted.
- 2 Top of barrier elevations shall take precedence over specified barrier heights for design and construction purposes.
- 3 In-kind replacement of an existing soundwall at new location with same height.
- 4 Replacement of existing soundwall at new location with new height.
- 5 Replacement of existing soundwall at same location with new height.
- 6 Stations correspond to that of the southbound on ramp at Talbert Avenue.
- ${\bf 7}$ Stations correspond to that of the northbound off ramp at Brookhurst Avenue.
- 8 Stations correspond to that of the southbound off ramp at Brookhurst Avenue.
- 9 Stations correspond to that of the northbound on ramp at Warner Avenue.
- 10 Stations correspond to that of the northbound off ramp at Magnolia Street.

Table H-9 – Barrier Locations and Elevations – Alternative 2 – Segment 3

Barrier No.	Receivers Protected (Receiverr No.)	Barrier Location / Hwy. Side	Barrier Stations ¹	Approximate Barrier Height, ft	Top of Barrier
S807	R3.23A, R3.23B,	Shoulder /	804+00 ⁶	12	56.8
0007	R3.24 & R3.25	Southbound	806+00 ⁶	12	50.0
	13.24 & 13.23	Southbound	807+00 ⁶	12	47.0
			808+00 ⁶	12	
			808+00 °		44.9
				14	46.9
			809+00 ⁶	14	47.5
			809+50 ⁶	14	47.6
		Approx	810+00 ⁶ kimate Length: 575	14	47.8
S811 ⁵	R3.24 & R3.25	R/W /	809+37 ⁶	16	46.9
		Southbound	810+17 ⁶	16	47.0
			811+13 ⁶	16	47.0
			811+18 ⁶	16	47.0
			812+05 ⁶	16	47.1
			812+08 ⁶	16	47.1
			812+08 ⁶	10	41.1
			813+13 ⁶	10	41.2
			814+00 ⁶	10	42.0
		Approx	kimate Length: 480	ft	
S827 ³	R3.26 to R3.42	R/W	814+00	10	45.0
		on Retaining Wall/	814+50	10	44.8
		Southbound	815+00	10	44.7
		Coutribouria	815+50	10	44.5
			816+00	10	44.3
				10	44.3
			816+50		
			817+00	10	44.2
			817+50	10	44.2
			818+00	10	44.1
			819+00	10	43.9
			819+50	10	43.7
			819+50	12	45.7
			820+00	12	45.6
			821+00	12	45.4
			822+00	12	45.1
			823+00	12	44.9
			824+00	12	44.7
			825+00	12	44.6
			826+00	12	44.5
			827+00	12	44.5
			828+00	12	44.5
			829+00	12	44.5
			830+00	12	44.4
			831+00	12	44.2
			832+00	12	44.0
			833+00	12	43.9
			834+00	12	43.7
			834+50	12	43.6
			835+00	12	43.5
			835+50	12	43.3
				12	43.2
			836+00		
			836+50	12	43.2
			837+00	12	43.2
		1	837+50	12	43.1
			838+00	12	43.1

- 1 Stations correspond to that of I-405 mainline unless otherwise noted.
- $2\,\hbox{-}\,\mathsf{Top}\,\mathsf{of}\,\mathsf{barrier}\,\mathsf{elevations}\,\mathsf{shall}\,\mathsf{take}\,\mathsf{precedence}\,\mathsf{over}\,\mathsf{specified}\,\mathsf{barrier}\,\mathsf{heights}\,\mathsf{for}\,\mathsf{design}\,\mathsf{and}\,\mathsf{construction}\,\mathsf{purposes}.$
- $\ensuremath{\mathtt{3}}$ In-kind replacement of an existing soundwall at new location with same height.
- 4 Replacement of existing soundwall at new location with new height.
- 5 Replacement of existing soundwall at same location with new height.
- 6 Stations correspond to that of the southbound off ramp at Magnolia Street.
- 7 Stations correspond to that of the southbound on ramp at Edinger Avenue.
- 8 Stations correspond to that of the northbound off ramp at Beach Boulevard.
- $\boldsymbol{9}$ Stations correspond to that of the southbound on ramp at Bolsa Avenue.

Table H-9 – Barrier Locations and Elevations – Alternative 2 – Segment 3 (Cont'd)

Barrier No.	Receivers Protected (Receiverr No.)	Barrier Location / Hwy. Side	Barrier Stations ¹	Approximate Barrier Height, ft	Top of Barrier Elevation ² , ft
S834	R3.13 to R3.21	Shoulder /	827+50	16	50.8
		Northbound	828+00	16	50.6
			830+00	16	48.8
			832+00	16	48.2
			834+00	16	47.7
			836+00	16	47.4
			838+00	16	47.1
			839+00	16	47.1
			840+00	16	47.0
			840+50	16	46.9
			841+00	16	46.8
		Appro	ximate Length: 1,350	ft	
S841	R3.47 to R3.52	Shoulder /	837+50	12	43.1
		Southbound	838+00	12	43.1
			838+50	12	43.1
			839+00	12	43.1
			839+50	12	43.1
			840+00	12	43.1
			840+00	14	45.1
			841+00	14	44.9
			842+00	14	44.6
			842+25	14	44.6
			842+37	14	44.6
			842+50	14	44.5
			842+75	14	44.5
		Appro	ximate Length: 525	ft	
S857	R3.56	Shoulder /	856+00 ⁷	12	42.4
		Southbound	856+25 ⁷	12	42.7
		Couribouria	856+50 ⁷	12	42.9
			857+00 ⁷	12	43.1
			857+50 ⁷	12	43.3
			858+00 ⁷	12	43.5
			858+25 ⁷	12	43.8
		Appro	ximate Length: 225		1
2060	D2 62	D/M /	000:05.8	40	45.4
S868	R3.63	R/W /	866+65 ⁸	16	45.4 45.0
		Northbound	867+24 ⁸ 868+31 ⁸	16	45.9
				16	46.5
			869+59 ⁸ 870+45 ⁸	16	46.5
		٨٨٨٨		16	46.5
Notos:		Аррго.	ximate Length: 325	ιι	

- 1 Stations correspond to that of I-405 mainline unless otherwise noted.
- 2 Top of barrier elevations shall take precedence over specified barrier heights for design and construction purposes.
- 3 In-kind replacement of an existing soundwall at new location with same height.
- 4 Replacement of existing soundwall at new location with new height.
- 5 Replacement of existing soundwall at same location with new height.
- 6 Stations correspond to that of the southbound off ramp at Magnolia Street.
- 7 Stations correspond to that of the southbound on ramp at Edinger Avenue.
- 8 Stations correspond to that of the northbound off ramp at Beach Boulevard.
- 9 Stations correspond to that of the southbound on ramp at Bolsa Avenue.

Table H-9 – Barrier Locations and Elevations – Alternative 2 – Segment 3 (Cont'd)

Barrier No.	Receivers Protected (Receiverr No.)	Barrier Location / Hwy. Side	Barrier Stations ¹		Approximate Barrier Height, ft	Top of Barrier Elevation ² , ft
S896	R3.76 & R3.77	R/W /	894+76		10	36.9
		Northbound	895+11		10	36.9
			895+25		10	37.5
			895+43		10	38.0
			895+61		10	38.5
			895+75		10	39.0
			895+86		10	39.0
		Appro	ximate Length:	110	ft	
S900 ³	R3.78 to R3.81A	Shoulder /	896+85		8	38.5
		Northbound	897+00		8	39.8
			898+00		8	41.0
			900+00		8	45.0
			902+00		8	50.4
			904+00		8	56.3
		Appro	ximate Length:	710	ft	I
S907	R3.87 to R3.89	Shoulder /	904+00		10	59.6
		Southbound	905+00		10	61.8
			906+00		10	64.0
			906+00		12	66.0
			908+00		12	68.9
			910+00		12	70.6
			910+50		12	70.5
		Appro	ximate Length:	650	π	
S908 ⁴	R3.82 to R3.86A	Shoulder /	904+00		10	58.5
		Northbound	906+00		10	63.2
			906+00		12	65.2
			908+00		12	68.9
			908+00		14	70.9
			910+00		14	72.4
			910+00		16	74.4
			910+00		16	74.2
		Annro	912+50	950	16	73.8
		Аррго	ximate Length:	850	ι	
S916	R3.85 to R3.86A	Shoulder /	912+50		16	73.8
		Northbound	914+00		16	72.3
			916+00		16	69.1
			918+00		16	64.0
		Α	920+00	750	16	58.3
		Appro	ximate Length:	750	π	

- 1 Stations correspond to that of I-405 mainline unless otherwise noted.
- 2 Top of barrier elevations shall take precedence over specified barrier heights for design and construction purposes.
- 3 In-kind replacement of an existing soundwall at new location with same height.
- 4 Replacement of existing soundwall at new location with new height.
- 5 Replacement of existing soundwall at same location with new height.
- 6 Stations correspond to that of the southbound off ramp at Magnolia Street.
- 7 Stations correspond to that of the southbound on ramp at Edinger Avenue.
- 8 Stations correspond to that of the northbound off ramp at Beach Boulevard.
- 9 Stations correspond to that of the southbound on ramp at Bolsa Avenue.

Table H-9 – Barrier Locations and Elevations – Alternative 2 – Segment 3 (Cont'd)

Barrier No.	Receivers Protected (Receiverr No.)	Barrier Location / Hwy. Side	Barrier Stations ¹	Approximate Barrier Height, ft	Top of Barrier Elevation ² , ft
S141 ³	R3.90 to R3.98		040.04	_	
3141	K3.90 to K3.96	Shoulder /	910+34	8	66.6
		Southbound	912+00	8	66.1
			914+00	8	64.3
			916+00	8	60.9
			918+00	8	55.9
			920+00	8	50.1
			922+00	8	45.7
			923+00	8	43.5
			923+25	8	42.9
			923+50	8	42.3
			924+00	8	41.2
			925+00	8	40.5
			925+50	8	40.1
		Appro	ximate Length: 1,525	ft	
S935	R3.99 to R3.100A	R/W /	932+90 ⁹	16	45.2
		Southbound	933+11 ⁹	16	44.5
			934+23 ⁹	16	44.0
			934+65 ⁹	16	44.4
			935+00 ⁹	16	44.5
			935+00 ⁹	14	42.5
			936+20 ⁹	14	41.6
			936+20 ⁹	12	39.6
			936+75 ⁹	12	39.0
			936+75 ⁹	10	37.0
			937+30 ⁹	10	37.0
		Appro	ximate Length: 395	ft	

- 1 Stations correspond to that of I-405 mainline unless otherwise noted.
- 2 Top of barrier elevations shall take precedence over specified barrier heights for design and construction purposes.
- 3 In-kind replacement of an existing soundwall at new location with same height.
- 4 Replacement of existing soundwall at new location with new height.
- 5 Replacement of existing soundwall at same location with new height.
- ${\bf 6}$ Stations correspond to that of the southbound off ramp at Magnolia Street.
- $\ensuremath{\mathsf{7}}$ Stations correspond to that of the south bound on ramp at Edinger Avenue.
- 8 Stations correspond to that of the northbound off ramp at Beach Boulevard.
- 9 Stations correspond to that of the southbound on ramp at Bolsa Avenue.

Table H-10 – Barrier Locations and Elevations – Alternative 2 – Segment 4

Barrier No.	Receivers Protected (Receiverr No.)	Barrier Location / Hwy. Side	Barrier Stations ¹	Approximate Barrier Height, ft	Top of Barrier Elevation ² , ft
S182 ³	R4.14A to				
3102 °	R4.14A 10 R4.21	Shoulder	952+90	10	42.3
	K4.21	on Retaining	954+00	10	42.9
		Wall /	956+00	10	43.9
		Northbound	958+00	10	46.5
			960+00	10	50.1
			962+00	10	55.3
			964+00	10	60.5
			966+00	10	64.6
			968+00	10	67.5
			969+00	10	68.1
		Annro	970+00	710.6	68.6
		Appro	ximate Length: 1,	710 π	
S972 ⁴	R4.22 to	Shoulder	970+00	12	70.6
	R4.24	on Retaining	971+00	12	70.1
		Wall /	971+00	14	72.1
		Northbound	972+00	14	71.5
			972+00	16	73.5
			974+10	16	71.1
		Appro	ximate Length:	410 ft	•
S978	R4.24 to	Shoulder	974+10	16	71.1
	R4.25	on Retaining	976+00	16	67.5
		Wall and	978+00	16	62.1
		Shoulder /	978+00	14	60.1
		Northbound	980+00	14	54.6
			980+00	12	52.6
			982+00	12	48.3
			983+00	12	47.1
			983+50	12	46.4
			984+00	12	45.8
		Appro		990 ft	•
S995 ⁵	R4.1	R/W Line /	993+63	16	45.9
		Southbound	994+07	16	45.9
			994+65	16	46.0
			994+65	14	44.0
			995+59	14	44.3
		Appro		200 ft	1
S998	R4.32	R/W Line /	997+11	14	43.9
	11.02	Northbound	998+00	14	45.7
		Northbourid	998+50	14	45.7
	}	Appro		140 ft	45.0
Notes:		Аррго	Annate Length.	ו טדי ון	

- 1 Stations correspond to that of I-405 mainline unless otherwise noted.
- 2 Top of barrier elevations shall take precedence over specified barrier heights for design and construction purposes.
- 3 In-kind replacement of an existing soundwall at new location with same height.
- 4 Replacement of existing soundwall at new location with new height.
- ${\bf 5}$ Replacement of existing soundwall at same location with new height.
- 6 Stations correspond to that of the southbound on ramp from Westminster Blvd.
- 7 Stations correspond to that of the northbound off ramp (loop) to Westminster Blvd.
- 8 Stations correspond to that of the northbound on ramp from Westminster Blvd.
- $\bf 9$ Stations correspond to that of the southbound on ramp (loop) from Valley View St.

Table H-10 – Barrier Locations and Elevations – Alternative 2 – Segment 4 (Cont'd)

	Receivers	Barrier		Approximate	
Barrier	Protected	Location /	Barrier	Barrier	Top of Barrier
No.	(Receiverr No.)	Hwy. Side	Stations ¹	Height, ft	Elevation ² , ft
S1005 ⁴	R4.7 to	R/W Line /	1004+00 ⁶	12	43.6
	R4.10	Southbound	1005+00 ⁶	12	43.2
			1005+75 ⁶	12	43.3
		Appro	ximate Length: 175	ft	
61000	D4 9 to	D.444.1.1	4005 75 6	4.0	40.0
S1009	R4.8 to R4.13	R/W Line	1005+75 ⁶	12	43.3
	K4.13	Transition to	1006+00 ⁶ 1007+00 ⁶	12	42.8
		Retaining Wall / Southbound	1007+00 ⁶	12 12	42.7 42.9
		Southbound	1007+43	12	42.8
			1008+50 ⁶	12	43.8
			1009+00 ⁶	12	45.0
			1009+50 ⁶	12	46.5
			1010+00 ⁶	12	47.9
			1010+50 ⁶	12	49.6
			1011+00 ⁶	12	51.2
			1011+50 ⁶	12	52.8
			1012+00 ⁶	12	54.4
			1012+50 ⁶	12	55.3
			1013+00 ⁶	12	56.2
			1013+50 ⁶	12	56.3
			1014+00 ⁶	12	56.4
		Approx	ximate Length: 840	ft	
S1006	R4.33A and	R/W Line /	1004+70 ⁷	10	41.9
0.1000	R4.33	Northbound	1004170	10	41.9
		Hombound	1006+00 7	10	42.1
			1007+00 7	10	42.1
			1008+00 ⁷	10	42.4
		Appro	ximate Length: 330	ft	
64046	R4.64C and	Dama	4042.00 8	40	47.0
S1016	R4.64C and R4.64D	Ramp Shoulder /	1013+00 ⁸ 1014+00 ⁸	12 12	47.9 44.6
	114.04D	Northbound	1014+00 1015+00 ⁸	12	42.5
		Northbourid	1015+00 1016+00 ⁸	12	41.9
			1016+00 ⁸	14	43.9
			1017+00 ⁸	14	43.4
			1017+65 ⁸	14	43.0
			1018+00 ⁸	14	43.2
			1018+70 ⁸	14	43.5
		Appro		ft	
64000 4	D4 04	D .	4040 70 8	4.4	
S1020 ⁴	R4.64	Ramp	1018+70 8	14	43.5
		Shoulder Transition to	1019+00 ⁸	14	43.6
		Transition to R/W Line /	1019+00 ⁸ 1020+00 ⁸	16 16	45.6 46.0
		Northbound	1020+00 ⁸	16 16	46.0 47.0
		INOLLIBOULIU	1021+00 ⁸	16	47.0 47.3
		Appro	ximate Length: 325		47.5
				-	
S1022 ⁵	R4.65	R/W Line /	1022+00 ⁸	16	47.3
		Northbound	1024+00	16	47.1
		Appro:	ximate Length: 200	ft	
S1024	R4.65	Inside R/W /	1024+00	16	47.1
		Northbound	1024+50	16	47.3
			1025+00	16	47.5
			1026+00	16	47.5
		Appro	ximate Length: 200		-
Notes:			Annate Longtii. 200	IL	

- 1 Stations correspond to that of I-405 mainline unless otherwise noted.
- 2 Top of barrier elevations shall take precedence over specified barrier heights for design and construction purposes.
- 3 In-kind replacement of an existing soundwall at new location with same height.
- 4 Replacement of existing soundwall at new location with new height.
- 5 Replacement of existing soundwall at same location with new height.
- ${\bf 6}$ Stations correspond to that of the southbound on ramp from Westminster Blvd.
- ${\it 7-Stations\ correspond\ to\ that\ of\ the\ northbound\ off\ ramp\ (loop)\ to\ Westminster\ Blvd.}$
- 8 Stations correspond to that of the northbound on ramp from Westminster Blvd.
- 9 Stations correspond to that of the southbound on ramp (loop) from Valley View St.

Table H-10 – Barrier Locations and Elevations – Alternative 2 – Segment 4 (Cont'd)

Barrier No.	Receivers Protected (Receiverr No.)	Barrier Location / Hwy. Side	Barrier Stations ¹	Approximate Barrier Height, ft	Top of Barrier Elevation ² , ft
S1026	R4.66	Inside R/W /	1026+50	16	48.6
		Northbound	1027+00	16	48.8
			1027+98	16	46.1
		Appro	ximate Length: 150	ft	
S1028 ⁵	R4.66	R/W Line /	1027+98	16	46.1
		Northbound	1028+70	16	46.4
			1030+00	16	45.9
		Appro	ximate Length: 200	ft	
S1083	R4.59 to	R/W Line /	1080+23	12	37.7
	R4.62	Southbound	1080+54	12	38.3
			1080+68	12	37.4
			1081+33	12	37.8
			1081+33	14	39.8
			1082+00	14	38.8
			1082+86 ⁹	14	39.7
			1083+10 ⁹	14	40.2
			1083+10 ⁹	12	38.2
			1083+40 ⁹	12	38.1
			1084+07 ⁹	12	37.2
			1084+15 ⁹	12	37.3
			1084+31 ⁹	12	37.2
		Appro	ximate Length: 555	ft	

- 1 Stations correspond to that of I-405 mainline unless otherwise noted.
- 2 Top of barrier elevations shall take precedence over specified barrier heights for design and construction purposes.
- 3 In-kind replacement of an existing soundwall at new location with same height.
- 4 Replacement of existing soundwall at new location with new height.
- 5 Replacement of existing soundwall at same location with new height.
- 6 Stations correspond to that of the southbound on ramp from Westminster Blvd.
- 7 Stations correspond to that of the northbound off ramp (loop) to Westminster Blvd.
- 8 Stations correspond to that of the northbound on ramp from Westminster Blvd.
- 9 Stations correspond to that of the southbound on ramp (loop) from Valley View St.

Table H-11 – Barrier Locations and Elevations – Alternative 2 – Segment 5

Barrier No.	Receivers Protected (Receiver No.)	Barrier Location / Hwy. Side	Barrier Stations ¹	Approximate Barrier Height, ft	Top of Barrier Elevation ² , ft
	,	-			
S1116 ³	R5.19 to R5.22	Shoulder /	1113+00	18	40.2
	R5.22	Northbound	1114+00	18	39.8
			1115+00	18	39.5
			1116+00	18	39.8
			1117+00	18	39.3
		Appro	1117+70 ximate Length: 470	18 ft	39.8
S1142 ³	R5.26 to	Shoulder /	1125+35	18	38.7
01142	R5.38	Northbound	1126+00	18	38.7
	1.0.00	Northbound	1127+00	18	38.5
			1127+00	18	38.3
				18	38.2
			1129+00		
			1130+00	18	38.0
			1131+00	18	37.8
			1132+00	18	37.7
			1133+00	18	38.9
			1134+00	18	39.6
			1135+00	18	39.0
			1136+00	18	38.3
			1137+00	18	38.4
			1138+00	18	38.4
			1139+00	18	38.5
			1140+00	18	38.6
			1141+00	18	38.6
			1142+00	18	38.6
			1143+00	18	38.6
			1144+00	18	38.5
			1145+00	18	38.5
			1146+00	18	38.4
			1147+00	18	39.0
			1148+00	18	39.6
			1149+00	18	39.4
			1150+00	18	39.1
			1151+00	18	38.6
			1152+00	18	38.1
			1153+00	18	38.1
			1154+00	18	38.0
			1155+00	18	38.0
			1156+00	18	37.9
			1157+00	18	38.7
		Appro	ximate Length: 3,167	ft	
S1162	R5.39 and	Shoulder /	1157+00	12	31.9
	R5.40	Northbound	1158+00	12	31.3
			1159+00	12	31.4
			1160+00	12	31.4
			1161+00	12	31.5
			1162+00	12	31.5
			1163+00	12	31.5
			1164+00	12	31.5
		Appro	ximate Length: 700	ft	

- 1 Stations correspond to that of I-405 mainline unless otherwise noted.
- 2 Top of barrier elevations shall take precedence over specified barrier heights for design and construction purposes.
- 3 In-kind replacement of an existing soundwall at new location with same height.
- 4 Replacement of existing soundwall at new location with new height.
- 5 Replacement of existing soundwall at same location with new height.

Table H-12 – Barrier Locations and Elevations – Alternative 2 – Segment 6

Barrier	Receivers Protected	Barrier Location /	Barrier	Approximate Barrier	Top of Barrier
No.	(Receiverr No.)	Hwy. Side	Stations ¹	Height, ft	Elevation ² , ft
S431 ³	D0.4.4-	Observativity or /	4000 : 00	40	04.4
5431	R6.1 to	Shoulder /	1203+30	10	24.4
	R6.11	Southbound	1204+00 1206+00	10 10	24.2 24.4
			1200+00	10	24.4
			1207+70	14	28.6
			1208+00	14	28.6
			1210+00	14	29.1
			1212+00	14	29.6
			1214+00	14	30.0
			1216+00	14	30.2
			1218+00	14	30.2
			1220+00	14	31.5
			1220+30 ⁷	14	31.2
		Appro	ximate Length: 1,700	ft	T
S434 ³	R6.26 to	Shoulder /	1217+50 ⁶	14	27.3
	R6.29	Northbound	1218+00 ⁶	14	27.1
			1218+50 ⁶	14	27.2
			1219+00 ⁶	14	27.5
			1220+00 ⁶	14	28.2
			1221+00 ⁶	14	28.6
			1222+00 ⁶	14	28.3
			1223+00 ⁶	14	28.3
			1224+00 ⁶	14	28.7
			1225+00 ⁶	14	29.2
		Appro	ximate Length: 745		-
S445 ³	R6.12 to	Shoulder /	1220+30 ⁷	14	31.2
0440	R6.17	Southbound	1220+30 1221+00 ⁷	14	32.0
	10.17	Southbound	1221+00 1222+00 ⁷	14	33.3
			1222+00 1223+00 ⁷		
			1223+00 1224+00 ⁷	14	34.4
			1224+00 1225+00 ⁷	14	35.3
				14	36.1
			1226+00 ⁷	14	36.9
			1227+00 7	14	36.9
			1228+00 7	14	36.0
			1229+00 7	14	34.9
		Annro	1230+00 ⁷ ximate Length: 975	14	33.8
S1226	R6.35 to	R/W /	1223+89	16	27.8
	R6.36A	Northbound	1223+93	16	26.8
			1223+96	16	26.8
			1224+78	16	26.8
			1226+02	16	26.7
			1227+13	16	26.6
		Δ	1228+13	16	26.8
<u> </u>		Appro	ximate Length: 440	π	
S464 ³	R6.45 and	R/W /	1244+01	16	27.1
	R6.46	Northbound	1244+39	16	26.0
			1245+43	16	27.0
		Appro	ximate Length: 140	ft	

- 1 Stations correspond to that of I-405 mainline.
- 2 Top of barrier elevations shall take precedence over specified barrier heights for design and construction purposes.
- $\bf 3$ This soundwall is a replace-in-kind soundwall.
- 4 This soundwall is a replacement soundwall which has been raised higher than the soundwall it replaces.
- 5 This soundwall raises the height of an existing soundwall.
- 6 Stations correspond to that of the northbound SR-22 on ramp from Old Ranch Pkwy.
- 7 Stations correspond to that of the eastbound SR-22 to southbound I-405 connector.

Table H-13 – Barrier Locations and Elevations – Alternative 3 – Segment 1

No.	(Receiver No.)	Location / Hwy. Side	Barrier Stations ¹	Barrier Height, ft	Top of Barrier Elevation ² , ft
S502 ³	R1.73A	Shoulder /	557+73 ⁶	14	45.6
		Northbound	558+00 ⁶	14	45.5
			559+00 ⁶	14	45.7
			560+00 ⁶	14	45.9
			561+00 ⁶	14	45.7
			562+00 ⁶	14	46.4
			563+00 ⁶	14	48.2
		Approx	ximate Length: 528	ft	
S583 ³	R1.61 to R1.67	Shoulder /	596+57 ⁷	14	76.0
		Southbound	596+00 ⁷	14	75.2
			595+00 ⁷	14	73.2
			594+00 ⁷	14	71.3
			593+00 ⁷	14	69.0
			592+00 ⁷	14	66.6
			590+00	14	60.8
			588+00	14	55.2
			586+00	14	50.0
			584+00	14	46.2
			582+00	14	45.7
			581+25	14	45.5
			581+00	14	45.4
			579+99 ⁸	14	45.1
			579+00 ⁸	14	45.3
			578+27 ⁸	14	46.0
		Approx	ximate Length: 761	ft	
S614A	R1.75	Shoulder /	614+00 ⁹	12	43.5
		Northbound	614+50 ⁹	12	42.7
			615+00 ⁹	12	42.1
			615+50 ⁹	12	41.8
			616+00 ⁹	12	41.8
		Approx	ximate Length: 200	ft	
S614B	R1.75	Private Property /	614+84 ⁹	8	37.3
00170		Northbound	615+46 ⁹	8	37.3
			ximate Length: 64		01.0

- 1 Stations correspond to that of I-405 mainline unless otherwise noted.
- 2 Top of barrier elevations shall take precedence over specified barrier heights for design and construction purposes.
- 3 In-kind replacement of an existing soundwall at new location with same height.
- 4 Replacement of existing soundwall at new location with new height.
- 5 Replacement of existing soundwall at same location with new height.
- 6 Stations correspond to that of the northbound off ramp at Fairview Road.
- 7 Stations correspond to that of the southbound on ramp at Harbor Street.
- 8 Stations correspond to that of the southbound off ramp at Fairview Road.
- 9 Stations correspond to that of the northbound on ramp at Brookhurst Street.
- 10 Stations correspond to that of the southbound on ramp at Ellis Avenue.

Table H-13 – Barrier Locations and Elevations – Alternative 3 – Segment 1 (Cont'd)

Barrier No.	Receivers Protected (Receiver No.)	Barrier Location / Hwy. Side	Barrier Stations ¹	Approximate Barrier Height, ft	Top of Barrier Elevation ² , ft
S629 ³	R1.85 to R1.89	R/W /	623+00	14	46.3
		Southbound	624+00	14	46.5
			625+00	14	46.7
			626+00	14	46.9
			627+00	14	47.1
			628+00	14	47.3
			629+00	14	47.3
			630+00	14	47.3
			631+00	14	47.1
			632+00	14	46.8
			633+00	14	46.3
			634+00	14	45.7
			635+00	14	45.4
		Δ	635+70	14	45.1
		Appro	ximate Length: 1275	π	I
S639 ³	R1.90 to R1.94	R/W /	635+70	16	47.1
		Southbound	636+00	16	47.1
			637+00	16	47.3
			638+00	16	47.5
			639+00	16	47.1
			640+00	16	46.7
			641+00	16	47.7
			642+00	16	45.5
		Appro	ximate Length: 635	ft	
S649 ³	R1.95 to R1.103	Shoulder /	642+00	12	41.5
		Southbound	643+00	12	43.6
			644+00	12	44.5
			645+00	12	45.9
			646+00	12	47.7
			647+00	12	49.5
			648+00	12	51.3
			649+00	12	53.1
			650+00 ¹⁰	12	55.2
			651+00 ¹⁰	12	56.5
			652+00 ¹⁰	12	58.0
			653+00 ¹⁰	12	59.1
			654+00 ¹⁰	12	59.7
			655+00 ¹⁰	12	60.9
			655+50 ¹⁰	12	62.1
		•	655+85 ¹⁰	12	62.7
		Appro	ximate Length: 1,380	tt	

- 1 Stations correspond to that of I-405 mainline unless otherwise noted.
- 2 Top of barrier elevations shall take precedence over specified barrier heights for design and construction purposes.
- 3 In-kind replacement of an existing soundwall at new location with same height.
- 4 Replacement of existing soundwall at new location with new height.
- 5 Replacement of existing soundwall at same location with new height.
- 6 Stations correspond to that of the northbound off ramp at Fairview Road.7 Stations correspond to that of the southbound on ramp at Harbor Street.
- 8 Stations correspond to that of the southbound off ramp at Fairview Road.
- 9 Stations correspond to that of the northbound on ramp at Brookhurst Street.
- 10 Stations correspond to that of the southbound on ramp at Ellis Avenue.

Table H-14 – Barrier Locations and Elevations – Alternative 3 – Segment 2

Barrier	Receivers Protected	Barrier Location /	Barrier	Approximate Barrier	Top of Barrier
No.	(Receiverr No.)	Hwy. Side	Stations ¹	Height, ft	Elevation ² , ft
S699 ³	R2.1 to R2.4A	R/W /	695+43	16	44.9
		Southbound	696+00	16	44.9
			697+00	16	45.2
			698+00	16	45.4
			699+00	16	46.2
			700+00	16	47.0
			700+37	16	47.5
			701+00	16	48.0
			701+10	16	48.0
		Appro	ximate Length: 570	ft	
S705 ³	R2.5 to R2.9	Shoulder /	701+10	12	44.0
		Southbound	702+00	12	44.9
			703+00	12	45.5
			704+00 ⁶	12	45.9
			705+00 ⁶	12	46.3
			706+00 ⁶	12	45.7
			706+50 ⁶	12	45.1
			707+00 ⁶	12	44.4
			707+50 ⁶	12	44.0
			708+00 ⁶	12	43.7
			708+11 ⁶	12	43.8
		Appro	ximate Length: 705	ft	
S708	R2.13	Shoulder /	706+00	12	41.6
		Northbound	707+00	12	41.4
			708+00	12	41.2
			708+42	12	41.1
		Appro	ximate Length: 240	ft	
S710 ³	R2.14 to R2.16	Shoulder /	708+42	12	41.1
2.10		Northbound	709+00	12	41.1
		Hombouria	710+00	12	40.9
			711+00	12	40.8
			712+00	12	40.7
			712+15	12	40.7
		Appro	ximate Length: 375		10.7
Nata a.					

- 1 Stations correspond to that of I-405 mainline unless otherwise noted.
- 2 Top of barrier elevations shall take precedence over specified barrier heights for design and construction purposes.
- 3 In-kind replacement of an existing soundwall at new location with same height.
- 4 Replacement of existing soundwall at new location with new height.
- 5 Replacement of existing soundwall at same location with new height.
- 6 Stations correspond to that of the southbound on ramp at Talbert Avenue.
- 7 Stations correspond to that of the northbound off ramp at Brookhurst Avenue.
- 8 Stations correspond to that of the southbound off ramp at Brookhurst Avenue.
- $\boldsymbol{9}$ Stations correspond to that of the northbound on ramp at Warner Avenue.
- 10 Stations correspond to that of the northbound off ramp at Magnolia Street.

Table H-14 – Barrier Locations and Elevations – Alternative 3 – Segment 2 (Cont'd)

	Receivers	Barrier		Approximate	
Barrier	Protected	Location /	Barrier	Barrier	Top of Barrier
No.	(Receiverr No.)	Hwy. Side	Stations ¹	Height, ft	Elevation ² , ft
S718	R2.17 to R2.27	Chaulden 9 D/M/	740.45	40	40.7
3710	K2.17 to K2.27	Shoulder & R/W/	712+15	12	40.7
		Northbound	712+49	12	38.8
			713+19	12	39.3
			713+19	14	41.3
			713+82	14	41.3
			714+41	14	41.2
			715+08	14	41.4
			715+69	14	41.4
			716+30	14	41.4
			716+92	14	41.4
			717+54	14	41.5
			718+12 ⁷	14	41.6
			718+73 ⁷	14	41.7
			719+32 ⁷	14	41.7
			719+94 ⁷	14	41.8
			720+00 ⁷	14	42.4
			720+50 ⁷	14	42.5
			721+00 ⁷	14	42.2
			721+50 ⁷	14	41.7
			722+00 ⁷	14	41.3
			722+50 ⁷	14	41.4
			722+50 ⁷	16	43.4
			723+00 ⁷	16	43.5
			723+50 ⁷	16	43.7
			724+00 ⁷	16	44.0
			724+50 ⁷	16	44.8
			725+00 ⁷	16	45.8
			725+50 ⁷	16	47.2
			726+00 ⁷	16	49.1
			726+50 ⁷	16	51.4
		Appro	ximate Length: 1,405		J 51.7

- 1 Stations correspond to that of I-405 mainline unless otherwise noted.
- 2 Top of barrier elevations shall take precedence over specified barrier heights for design and construction purposes.
- 3 In-kind replacement of an existing soundwall at new location with same height.
- 4 Replacement of existing soundwall at new location with new height.
- 5 Replacement of existing soundwall at same location with new height.
- 6 Stations correspond to that of the southbound on ramp at Talbert Avenue.
- ${\bf 7}$ Stations correspond to that of the northbound off ramp at Brookhurst Avenue.
- $\ensuremath{\mathbf{8}}$ Stations correspond to that of the south bound off ramp at Brookhurst Avenue.
- 9 Stations correspond to that of the northbound on ramp at Warner Avenue.
- 10 Stations correspond to that of the northbound off ramp at Magnolia Street.

Table H-14 – Barrier Locations and Elevations – Alternative 3 – Segment 2 (Cont'd)

Barrier No.	Receivers Protected (Receiverr No.)	Barrier Location / Hwy. Side	Barrier Stations ¹	Approximate Barrier Height, ft	Top of Barrier Elevation ² , ft
		-			
S733	R2.34	Shoulder /	730+50 ⁸	12	47.1
		Southbound	731+00 8	12	46.0
			731+40 8	12	45.4
			731+50 ⁸	12	45.3
			732+00 8	12	44.5
			732+50 8	12	43.7
			733+00 8	12	43.4
			733+50 ⁸	12	43.3
		 	734+00 8	12	43.5
		Appro	ximate Length: 330	ft	T
S745	R2.40 to R2.42	R/W /	741+60	14	44.5
		Southbound	743+33	14	43.3
			744+21	14	43.3
			744+21	16	45.3
			745+09	16	45.2
			745+13	16	45.2
			745+80	16	45.0
			746+00	16	46.0
			746+50	16	47.0
			747+00	16	47.0
			747+50	16	47.0
			748+00	16	47.0
			748+50	16	47.0
			749+00	16	46.8
		Appro	ximate Length: 750	ft	
S746	R2.45, R45A	R/W /	745+00	12	45.0
3,40	& R2.46	Northbound	745+50 745+50	12	45.0 45.0
	Q 1\2.40	NOTHIDOUTIC	745+50 746+00	12	43.0
			746+00 746+50	12	43.0 42.0
			740+30 747+00	12	40.6
		Appro	ximate Length: 195		40.6
S765	R2.63 to R2.65	R/W /	763+98	16	46.0
		Southbound	764+14	16	46.0
			764+14	14	44.0
			765+58	14	43.0
			765+78	14	42.0
			766+00	14	42.0
			766+07	14	42.8
		Appro	ximate Length: 215	ft	

- 1 Stations correspond to that of I-405 mainline unless otherwise noted.
- 2 Top of barrier elevations shall take precedence over specified barrier heights for design and construction purposes.
- 3 In-kind replacement of an existing soundwall at new location with same height.
- 4 Replacement of existing soundwall at new location with new height.
- 5 Replacement of existing soundwall at same location with new height.
- 6 Stations correspond to that of the southbound on ramp at Talbert Avenue.
- 7 Stations correspond to that of the northbound off ramp at Brookhurst Avenue.
- 8 Stations correspond to that of the southbound off ramp at Brookhurst Avenue.
- 9 Stations correspond to that of the northbound on ramp at Warner Avenue.
- 10 Stations correspond to that of the northbound off ramp at Magnolia Street.

Table H-14 – Barrier Locations and Elevations – Alternative 3 – Segment 2 (Cont'd)

	Receivers	Barrier		Approximate	
Barrier	Protected	Location /	Barrier	Barrier	Top of Barrier
No.	(Receiverr No.)	Hwy. Side	Stations ¹	Height, ft	Elevation ² , ft
0=00				-	
S766	R2.57 to R2.59	R/W /	766+14	14	46.4
		Northbound	766+46	14	46.5
			766+62	14	47.0
			767+06	14	47.0
			767+56	14	47.0
		Appro	ximate Length: 145	π	
S786	R2.80 & R2.81	Shoulder/	783+00 ⁹	16	66.5
		Northbound	783+50 ⁹	16	67.1
			784+00 ⁹	16	67.7
			784+00 ⁹	14	65.7
			784+50 ⁹	14	66.4
			785+00 ⁹	14	67.0
			785+50 ⁹	14	67.6
			786+00 ⁹	14	68.2
			786+50 ⁹	14	68.3
			787+00 ⁹	14	68.1
		Appro	ximate Length: 395	ft	
S788	R2.80 to R2.82	Shoulder/	787+00 ¹⁰	16	45.4
		Northbound	787+50 ¹⁰	16	45.6
			788+00 ¹⁰	16	45.6
			788+50 ¹⁰	16	45.5
			788+50 ¹⁰	14	43.5
			788+90 ¹⁰	14	43.6
		Appro	ximate Length: 190	ft	
S792 ³	R2.80 to R2.87	Shoulder/	788+90 ¹⁰	12	41.6
0732	112.00 to 112.07	Northbound	789+00 ¹⁰	12	41.7
		Northbound	789+50 ¹⁰	12	42.2
			790+00 ¹⁰	12	42.5
			790+50 ¹⁰	12	42.7
			790+30 791+00 ¹⁰	12	42.8
			791+50 ¹⁰	12	43.0
			791+30 792+00 ¹⁰	12	43.1
			792+50 ¹⁰	12	43.3
			792+30 793+00 ¹⁰	12	43.4
			793+50 ¹⁰	12	43.6
			794+00 ¹⁰	12	43.7
			794+50 ¹⁰	12	43.9
			795+00 ¹⁰	12	44.0
			795+50 ¹⁰	12	44.2
			796+00 ¹⁰	12	44.3
			796+50 ¹⁰	12	44.3
			797+00 ¹⁰	12	44.2
			797+00 797+25 ¹⁰	12	44.1
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- 1 Stations correspond to that of I-405 mainline unless otherwise noted.
- 2 Top of barrier elevations shall take precedence over specified barrier heights for design and construction purposes.
- 3 In-kind replacement of an existing soundwall at new location with same height.
- 4 Replacement of existing soundwall at new location with new height.
- 5 Replacement of existing soundwall at same location with new height.
- 6 Stations correspond to that of the southbound on ramp at Talbert Avenue.
- ${\bf 7}$ Stations correspond to that of the northbound off ramp at Brookhurst Avenue.
- 8 Stations correspond to that of the southbound off ramp at Brookhurst Avenue.
- 9 Stations correspond to that of the northbound on ramp at Warner Avenue.
- 10 Stations correspond to that of the northbound off ramp at Magnolia Street.

Table H-15 – Barrier Locations and Elevations – Alternative 3 – Segment 3

	Receivers	Barrier		Approximate	
Barrier	Protected	Location /	Barrier	Barrier	Top of Barrier Elevation ² , ft
No.	(Receiverr No.)	Hwy. Side	Stations ¹	Height, ft	Elevation-, ft
S807	R3.23A, R3.23B,	Shoulder /	804+00 6	12	56.8
	R3.24 & R3.25	Southbound	806+00 ⁶	12	50.0
			807+00 ⁶	12	47.0
			808+00 ⁶	12	44.9
			808+00 ⁶ 809+00 ⁶	14	46.9
			809+50 ⁶	14 14	47.5 47.6
			810+00 ⁶	14	47.8 47.8
		Appro	ximate Length: 575		47.0
S811 ⁵	D2 24 8 D2 25				10.0
2811	R3.24 & R3.25	R/W /	809+37 ⁶ 810+17 ⁶	16	46.9
		Southbound	810+17 ⁶	16 16	47.0 47.0
			811+18 ⁶	16 16	47.0 47.0
			812+05 ⁶	16 16	47.0 47.1
			812+08 ⁶	16	47.1 47.1
			812+08 ⁶	10	41.1
	1		813+13 ⁶	10	41.1
			814+00 ⁶	10	42.0
		Appro	ximate Length: 480		12.0
S827 ³	R3.26 to R3.42	R/W	914:00	10	45.0
3021	10.20 to 10.42	on Retaining Wall/	814+00 814+50	10	45.0 44.8
		Southbound	815+00	10	44.7
		Southbound	815+50	10	44.7
			816+00	10	44.3
			816+50	10	44.3
			817+00	10	44.2
			817+50	10	44.2
			818+00	10	44.1
			819+00	10	43.9
			819+50	10	43.7
			819+50	12	45.7
			820+00	12	45.6
			821+00	12	45.4
			822+00	12	45.1
			823+00	12	44.9
			824+00	12	44.7
			825+00	12	44.6
	1		826+00	12	44.5
	1		827+00	12	44.5
	1		828+00	12	44.5
	1		829+00	12	44.5
	1		830+00	12	44.4
	1		831+00	12	44.2
	1		832+00	12	44.0
	1		833+00	12	43.9
	1		834+00	12	43.7
	1		834+50 835+00	12 12	43.6 43.5
	1		835+00 835+50	12	43.5
	1		836+00	12	43.3
	1		836+50	12	43.2
	1		837+00	12	43.2
	1		837+50	12	43.2
	1		838+00	12	43.1

- 1 Stations correspond to that of I-405 mainline unless otherwise noted.
- 2 Top of barrier elevations shall take precedence over specified barrier heights for design and construction purposes.
- 3 In-kind replacement of an existing soundwall at new location with same height.
- 4 Replacement of existing soundwall at new location with new height.
- 5 Replacement of existing soundwall at same location with new height.
- 6 Stations correspond to that of the southbound off ramp at Magnolia Street.
- 7 Stations correspond to that of the southbound on ramp at Edinger Avenue.
- 8 Stations correspond to that of the northbound off ramp at Beach Boulevard.
- 9 Stations correspond to that of the southbound on ramp at Bolsa Avenue.

Table H-15 – Barrier Locations and Elevations – Alternative 3 – Segment 3 (Cont'd)

Barrier No.	Receivers Protected (Receiverr No.)	Barrier Location / Hwy. Side	Barrier Stations ¹	Approximate Barrier Height, ft	Top of Barrier Elevation ² , ft
S834	R3.13 to R3.21	Shoulder /	827+50	16	50.8
		Northbound	828+00	16	50.6
			830+00	16	48.8
			832+00	16	48.2
			834+00	16	47.7
			836+00	16	47.4
			838+00	16	47.1
			839+00	16	47.1
			840+00	16	47.0
			840+50	16	46.9
			841+00	16	46.8
		Appro:	ximate Length: 1,350	ft	
S841	R3.47 to R3.52	Shoulder /	837+50	12	43.1
		Southbound	838+00	12	43.1
			838+50	12	43.1
			839+00	12	43.1
			839+50	12	43.1
			840+00	12	43.1
			840+00	14	45.1
			841+00	14	44.9
			842+00	14	44.6
			842+25	14	44.6
			842+37	14	44.6
			842+50	14	44.5
			842+75	14	44.5
		Appro	ximate Length: 525	ft	
S857	R3.56	Shoulder /	856+00 ⁷	12	42.4
		Southbound	856+25 ⁷	12	42.7
			856+50 ⁷	12	42.9
			857+00 ⁷	12	43.1
			857+50 ⁷	12	43.3
			858+00 ⁷	12	43.5
			858+25 ⁷	12	43.8
		Appro	ximate Length: 225	ft	
S868	R3.63	R/W /	866+65 ⁸	16	45.4
		Northbound	867+24 ⁸	16	45.9
			868+31 ⁸	16	46.5
			869+59 ⁸	16	46.5
			870+45 ⁸	16	46.5
		Appro	ximate Length: 325		

- 1 Stations correspond to that of I-405 mainline unless otherwise noted.
- 2 Top of barrier elevations shall take precedence over specified barrier heights for design and construction purposes.
- 3 In-kind replacement of an existing soundwall at new location with same height.
- 4 Replacement of existing soundwall at new location with new height.
- 5 Replacement of existing soundwall at same location with new height.
- 6 Stations correspond to that of the southbound off ramp at Magnolia Street.
- 7 Stations correspond to that of the southbound on ramp at Edinger Avenue.
- 8 Stations correspond to that of the northbound off ramp at Beach Boulevard.
- 9 Stations correspond to that of the southbound on ramp at Bolsa Avenue.

Table H-15 – Barrier Locations and Elevations – Alternative 3 – Segment 3 (Cont'd)

Barrier	Receivers Protected	Barrier Location /	Barrier Stations ¹	Approximate Barrier	Top of Barrier Elevation ² , ft
No.	(Receiverr No.)	Hwy. Side	Stations	Height, ft	Elevation, it
S896	R3.76 & R3.77	R/W /	894+76	10	36.9
		Northbound	895+11	10	36.9
			895+25	10	37.5
			895+43	10	38.0
			895+61	10	38.5
			895+75	10	39.0
			895+86	10	39.0
		Appro	ximate Length: 110	ft	
S902 ³	R3.78 to R3.84	Shoulder /	896+85	8	38.5
		Northbound	897+00	8	39.8
			898+00	8	41.0
			900+00	8	45.0
			902+00	8	50.4
			904+00	8	56.3
			906+00	8	61.0
			908+00	8	64.7
		Appro	ximate Length: 1,110	ft	
S907	R3.87 to R3.89	Shoulder /	903+00	10	FC 9
3907	13.07 to 13.09	Southbound	903+00	10	56.8 59.6
		Southbound	905+00	10	61.8
			906+00	10	64.0
			906+00	12	66.0
			908+00	12	68.9
			910+00	12	70.6
			910+50	12	70.5
	•	Appro	ximate Length: 755		. 0.0
0640.4	D0 044- D0 001		-		
S910 ⁴	R3.84 to R3.86A	Shoulder /	908+00	10	66.7
		Northbound	910+00	10	68.4
			910+00	12	70.4
			912+00	12	70.2
		Appro	912+50 ximate Length: 450	12	69.8
		Дррго	Annate Length. 450	n.	
S916	R3.85 to R3.86A	Shoulder /	912+50	12	69.8
		Northbound	914+00	12	68.3
			916+00	12	65.1
			918+00	12	60.0
			920+00	12	54.3
		Appro	ximate Length: 750	ft	

- 1 Stations correspond to that of I-405 mainline unless otherwise noted.
- 2 Top of barrier elevations shall take precedence over specified barrier heights for design and construction purposes.
- 3 In-kind replacement of an existing soundwall at new location with same height.
- 4 Replacement of existing soundwall at new location with new height.
- 5 Replacement of existing soundwall at same location with new height.
- $\ensuremath{\text{6}}$ Stations correspond to that of the south bound off ramp at Magnolia Street.
- 7 Stations correspond to that of the southbound on ramp at Edinger Avenue.
- 8 Stations correspond to that of the northbound off ramp at Beach Boulevard.
- 9 Stations correspond to that of the southbound on ramp at Bolsa Avenue.

Table H-15 – Barrier Locations and Elevations – Alternative 3 – Segment 3 (Cont'd)

Barrier No.	Receivers Protected (Receiverr No.)	Barrier Location / Hwy. Side	Barrier Stations ¹	Approximate Barrier Height, ft	Top of Barrier Elevation ² , ft
S141 ³	R3.90 to R3.98	Shoulder /	910+34	8	66.6
0141	110.00 to 110.00	Southbound	912+00	8	66.1
		Southbound	914+00	8	64.3
			916+00	8	60.9
			918+00	8	55.9
			920+00	8	50.1
			920+00	8	45.7
			923+00	8	43.7
			923+00	8	42.9
			923+23	8	42.3
			924+00	8	41.2
			924+00	8	40.5
			925+50	8	40.5
		Appro	ximate Length: 1,525		40.1
S935	R3.99 to R3.100A	R/W /	932+90 9	16	45.2
		Southbound	933+11 ⁹	16	44.5
			934+23 ⁹	16	44.0
			934+65 ⁹	16	44.4
			935+00 ⁹	16	44.5
			935+00 ⁹	14	42.5
			936+20 ⁹	14	41.6
			936+20 ⁹	12	39.6
			936+75 ⁹	12	39.0
			936+75 ⁹	10	37.0
			937+30 ⁹	10	37.0
		Appro	ximate Length: 395	ft	

- 1 Stations correspond to that of I-405 mainline unless otherwise noted.
- 2 Top of barrier elevations shall take precedence over specified barrier heights for design and construction purposes.
- 3 In-kind replacement of an existing soundwall at new location with same height.
- 4 Replacement of existing soundwall at new location with new height.
- 5 Replacement of existing soundwall at same location with new height.
- 6 Stations correspond to that of the southbound off ramp at Magnolia Street.
- 7 Stations correspond to that of the southbound on ramp at Edinger Avenue.
- 8 Stations correspond to that of the northbound off ramp at Beach Boulevard.
- 9 Stations correspond to that of the southbound on ramp at Bolsa Avenue.

Table H-16 – Barrier Locations and Elevations – Alternative 3 – Segment 4

	Receivers	Barrier		Approximate	
Barrier	Protected	Location /	Barrier	Barrier	Top of Barrier
No.	(Receiverr No.)	Hwy. Side	Stations ¹	Height, ft	Elevation ² , ft
S182 ³	R4.14A to	Shoulder	952+90	10	42.3
	R4.22	on Retaining	954+00	10	42.9
		Wall /	956+00	10	43.8
		Northbound	958+00	10	46.3
			960+00	10	50.0
			962+00	10	55.0
			964+00	10	60.3
			966+00	10	64.5
			968+00	10	67.5
			969+00	10	68.0
			970+00	10	68.5
			971+00	10	68.1
		Appro	ximate Length: 1	1,810 ft	
S972 ⁴	R4.23 to	Shoulder	971+00	14	72.1
	R4.24	on Retaining	972+00	14	71.7
		Wall /	972+00	16	73.7
		Northbound	974+10	16	71.1
		Appro	ximate Length:	310 ft	
S978	R4.24 to	Shoulder	974+10	16	71.1
	R4.25	on Retaining	976+00	16	67.3
		Wall and	978+00	16	62.4
		Shoulder /	978+00	14	60.4
		Northbound	980+00	14	54.7
			980+00	12	52.7
			982+00	12	48.5
			983+00	12	47.2
			983+50	12	46.5
			984+00	12	45.9
		Appro	ximate Length:	990 ft	
S995 ⁵	R4.1	R/W Line /	993+63	16	45.9
		Southbound	994+07	16	45.9
			994+65	16	46.0
			994+65	14	44.0
			995+59	14	44.3
		Appro	ximate Length:	200 ft	•
S998	R4.32	R/W Line /	997+11	14	43.9
		Northbound	998+00	14	45.7
		Holaboula	998+50	14	45.8
		Appro	ximate Length:	140 ft	10.0
		5610	<u></u>	,	

- 1 Stations correspond to that of I-405 mainline unless otherwise noted.
- 2 Top of barrier elevations shall take precedence over specified barrier heights for design and construction purposes.
- 3 In-kind replacement of an existing soundwall at new location with same height.
- 4 Replacement of existing soundwall at new location with new height.
- 5 Replacement of existing soundwall at same location with new height.
- 6 Stations correspond to that of the southbound on ramp from Westminster Blvd.
- 7 Stations correspond to that of the northbound off ramp (loop) to Westminster Blvd.
- 8 Stations correspond to that of the northbound on ramp from Westminster Blvd.
- 9 Stations correspond to that of the southbound on ramp (loop) from Valley View St.

Table H-16 – Barrier Locations and Elevations – Alternative 3 – Segment 4 (Cont'd)

Barrier	Receivers Protected	Barrier Location /	Barrier	Approximate Barrier	Top of Barrier
No.	(Receiverr No.)	Hwy. Side	Stations ¹	Height, ft	Elevation ² , ft
S1005 ⁴	R4.7 to	R/W Line /	1004+00 ⁶	12	43.6
	R4.10	Southbound	1005+00 ⁶	12	43.2
			1005+75 ⁶	12	43.3
		Approx	kimate Length: 175	ft	
S1009	R4.8 to	R/W Line	1005+75 ⁶	12	43.3
01000	R4.13	Transition to	1005+75	12	42.8
	14.10	Retaining Wall /	1007+00 ⁶	12	42.7
		Southbound	1007+45 ⁶	12	42.9
			1008+00 ⁶	12	42.8
			1008+00 ⁶	10	40.8
			1008+50 ⁶	10	41.8
			1009+00 ⁶	10	43.0
			1009+50 ⁶	10	44.5
			1010+00 ⁶	10	45.9
			1010+50 ⁶	10	47.6
			1011+00 ⁶	10	49.2
			1011+50 ⁶	10	50.8
			1012+00 ⁶	10	52.4
			1012+50 ⁶	10	53.3
			1013+00 ⁶	10	54.2
			1013+50 ⁶	10	54.3
		Approx	1014+00 ⁶ kimate Length: 840	10 ft	54.4
		, трргол	amate Longth. 040		
S1006	R4.33A and	R/W Line /	1004+70 ⁷	10	41.9
	R4.33	Northbound	1005+00 ⁷	10	41.9
			1006+00 7	10	42.1
			1007+00 7	10	42.1
		Approx	1008+00 ⁷ kimate Length: 330	10	42.4
		Дрргод	-	n	l
S1016	R4.64C and	Ramp	1013+00 8	12	47.9
	R4.64D	Shoulder /	1014+00 8	12	44.6
		Northbound	1015+00 ⁸	12	42.5
			1016+00 ⁸	12	41.9
			1016+00 ⁸	14	43.9
			1017+00 ⁸ 1017+65 ⁸	14	43.4
			1017+65 8	14 14	43.0 43.2
			1018+00 ⁸	14	43.5
		Approx	kimate Length: 560		70.0
04000 4	D4.04		-		
S1020 ⁴	R4.64	Ramp	1018+70 ⁸	14	43.5
		Shoulder	1019+00 ⁸	14	43.6
		Transition to	1019+00 ⁸	16	45.6
		R/W Line / Northbound	1020+00 ⁸ 1021+00 ⁸	16 16	46.0 47.0
		Northbourid	1021+00 1022+00 ⁸	16	47.0
		Approx	kimate Length: 325		1 77.0
04600 5	D4.05		J		
S1022 ⁵	R4.65	R/W Line /	1022+00 ⁸	16	47.3
		Northbound Approx	1024+00 kimate Length: 200	16	47.1
		Арргол	Annate Length. 200	n.	
S1024	R4.65	Inside R/W /	1024+00	16	45.1
		Northbound	1024+50	16	45.3
			1025+00	16	45.5
			1026+00	16	45.5
		Approx	kimate Length: 200	ft	

- 1 Stations correspond to that of I-405 mainline unless otherwise noted.
- 2 Top of barrier elevations shall take precedence over specified barrier heights for design and construction purposes.
- 3 In-kind replacement of an existing soundwall at new location with same height.
- 4 Replacement of existing soundwall at new location with new height.
- 5 Replacement of existing soundwall at same location with new height.
- 6 Stations correspond to that of the southbound on ramp from Westminster Blvd.
- 7 Stations correspond to that of the northbound off ramp (loop) to Westminster Blvd.
- 8 Stations correspond to that of the northbound on ramp from Westminster Blvd.
- 9 Stations correspond to that of the southbound on ramp (loop) from Valley View St.

Table H-16 – Barrier Locations and Elevations – Alternative 3 – Segment 4 (Cont'd)

Receivers Protected (Receiverr No.)	Barrier Location / Hwy. Side	Barrier Stations ¹	Approximate Barrier Height, ft	Top of Barrier Elevation ² , ft
R4.66	Inside R/W /	1027+00	16	48.8
				46.1
R4.66	R/W Line /	1027+98 1028+70	16 16	46.1 46.4
R4.59 to R4.62	R/W Line / Southbound	1080+23 1080+54 1080+68 1081+33 1082+00 1082+86 ⁹ 1083+10 ⁹ 1083+40 ⁹ 1084+07 ⁹ 1084+15 ⁹	14 14 14 14 14 14 12 12 12 12	39.7 40.3 39.4 39.8 38.8 39.7 40.2 38.2 38.1 37.2 37.3
	Appro			37.2
	Protected (Receiverr No.) R4.66 R4.66	Protected (Receiverr No.) R4.66 R4.66 R4.66 R4.66 R4.66 R/W Line / Northbound Approx R4.59 to R4.62 R4.62 R/W Line / Southbound	Protected (Receiverr No.) Location / Hwy. Side Barrier Stations¹ R4.66 Inside R/W / Northbound 1027+00 1027+98 Approximate Length: 100 R4.66 R/W Line / Northbound 1027+98 1028+70 R4.59 to R4.62 R/W Line / Northbound 1080+23 1080+54 1080+54 1080+68 1081+33 1082+00 1082+86 1081+33 1082+00 1082+86 1083+1083+10 1083+10 1083+10 1083+10 1083+1083+1083+1083+1083+1083+1083+1083+	R4.66 Inside R/W / Northbound 1027+98 16 16 Northbound 1028+70 16 Northbound 1080+54 14 Northbound 1080+54 14 Northbound 1080+68 14 Northbound 1082+86 14 Northbound 1082+86 14 Northbound 1082+86 14 Northbound 1083+10 9 12 Northbound 1083+40 9 12 Northbound 1083+40 9 12 Northbound 1084+07 9 12 Northbound 1084+15 9 12

- 1 Stations correspond to that of I-405 mainline unless otherwise noted.
- 2 Top of barrier elevations shall take precedence over specified barrier heights for design and construction purposes.
- 3 In-kind replacement of an existing soundwall at new location with same height.
- 4 Replacement of existing soundwall at new location with new height.
- 5 Replacement of existing soundwall at same location with new height.
- 6 Stations correspond to that of the southbound on ramp from Westminster Blvd.
- 7 Stations correspond to that of the northbound off ramp (loop) to Westminster Blvd.
- 8 Stations correspond to that of the northbound on ramp from Westminster Blvd.
- 9 Stations correspond to that of the southbound on ramp (loop) from Valley View St.

Table H-17 – Barrier Locations and Elevations – Alternative 3 – Segment 5

Barrier No.	Receivers Protected (Receiver No.)	Barrier Location / Hwy. Side	Barrier Stations ¹	Approximate Barrier Height, ft	Top of Barrier Elevation ² , ft
S1116 ³	R5.19 to	Shoulder /	1113+00	18	40.2
00	R5.22	Northbound	1114+00	18	39.5
			1115+00	18	39.8
			1116+00	18	39.3
			1117+00	18	40.0
		Appro	ximate Length: 400		
S1132 ³	R5.26 to	Shoulder /	1124+00	18	39.0
	R5.34	Northbound	1125+00	18	38.6
			1126+00	18	38.7
			1127+00	18	38.5
			1128+00	18	38.3
			1129+00	18	38.2
			1130+00	18	38.0
			1131+00	18	37.8
			1132+00	18	37.7
			1133+00	18	37.6
			1134+00	18	37.4
			1135+00	18	37.2
			1136+00	18	37.1
			1137+00	18	36.9
			1138+00	18	37.1
			1139+00	18	38.1
			1139+50	18	37.5
		Appro	ximate Length: 1,553	ft	
S1162	R5.39 and	Shoulder /	1157+00	12	30.0
	R5.40	Northbound	1158+00	12	31.3
			1159+00	12	31.4
			1160+00	12	31.4
			1161+00	12	31.5
			1162+00	12	31.5
			1163+00	12	31.5
			1164+00	12	31.5
		Appro	ximate Length: 700	ft	

- 1 Stations correspond to that of I-405 mainline unless otherwise noted.
- 2 Top of barrier elevations shall take precedence over specified barrier heights for design and construction purposes.
- 3 In-kind replacement of an existing soundwall at new location with same height.
- 4 Replacement of existing soundwall at new location with new height.
- 5 Replacement of existing soundwall at same location with new height.

Table H-18 – Barrier Locations and Elevations – Alternative 3 – Segment 6

	Receivers	Barrier		Approximate	
Barrier	Protected	Location /	Barrier	Barrier	Top of Barrier
No.	(Receiverr No.)	Hwy. Side	Stations ¹	Height, ft	Elevation ² , ft
S431 ³	R6.1 to	Shoulder /	1203+30	10	24.4
	R6.11	Southbound	1204+00	10	24.2
			1206+00	10	24.4
			1207+70	10	24.6
			1207+70	14	28.6
			1208+00	14	28.6
			1210+00	14	29.1
			1212+00	14	29.4
			1214+00	14	29.8
			1216+00 1218+00	14 14	30.0 30.1
			1220+00	14	31.5
			1220+00	14	31.2
		Λ			31.2
		Аррго	ximate Length: 1,700	π	I
S434 ³	R6.26 to	Shoulder /	1217+50 ⁶	14	27.3
	R6.29	Northbound	1218+00 ⁶	14	27.1
			1218+50 ⁶	14	27.2
			1219+00 ⁶	14	27.5
			1220+00 ⁶	14	28.2
			1221+00 ⁶	14	28.6
			1222+00 ⁶	14	28.3
			1223+00 ⁶	14	28.3
			1223+00 1224+00 ⁶	14	28.7
			1224+00 1225+00 ⁶		
		Δnnro	ximate Length: 745	14	29.2
		тррго	-	ıı	
S445 ³	R6.12 to	Shoulder /	1220+30 ⁷	14	31.2
	R6.17	Southbound	1221+00 ⁷	14	32.0
			1222+00 ⁷	14	33.3
			1223+00 ⁷	14	34.4
			1224+00 ⁷	14	35.3
			1225+00 ⁷	14	36.1
			1226+00 ⁷	14	36.9
			1227+00 ⁷	14	36.9
		Appro	ximate Length: 675		55.0
\$1226	D6 25 to				07.0
S1226	R6.35 to	R/W /	1223+95	16	27.8
	R6.36A	Northbound	1223+98	16	26.8
			1224+02	16	26.8
			1224+84	16	26.8
			1226+07	16	26.7
			1227+18	16	26.6
		۸	1228+19	16	26.8
		Appro	ximate Length: 440	IL	<u> </u>
S464 ³	R6.45 and	R/W /	1244+04	16	27.1
	R6.46	Northbound	1244+43	16	26.0
			1245+46	16	27.0
		Appro	ximate Length: 140	ft	

- 1 Stations correspond to that of I-405 mainline.
- 2 Top of barrier elevations shall take precedence over specified barrier heights for design and construction purposes.
- 3 This soundwall is a replace-in-kind soundwall.
- ${\tt 4-This\ soundwall\ is\ a\ replacement\ soundwall\ which\ has\ been\ raised\ higher\ than\ the\ soundwall\ it\ replaces.}$
- 5 This soundwall raises the height of an existing soundwall.
- 6 Stations correspond to that of the northbound SR-22 on ramp from Old Ranch Pkwy.
- 7 Stations correspond to that of the eastbound SR-22 to southbound I-405 connector.

Appendix I Noise Barrier Reasonableness Analysis Worksheet

Project: I-405 PA-ED	Project Loca	ition:	Date:	11/18/2010
Alternative 1	Orange Cou	nty		
Noise Barrier I.D. & Location: S708, S710	, & S718	(14 ft) / Sh	noulder & I	R/W
Critical Design Receiver:	R2.20			
Base Allowance (2009 Dollars)				\$31,000
1. Absolute Noise Levels	check one	67 d	BA*	\times
69 dBA or less	✓	Add	\$2,000	\$2,000
70-74 dBA		Add	\$4,000	
75-78 dBA		Add	\$6,000	
More than 78 dBA		Add	\$8,000	
2."Build" VS Existing Noise Levels	check one	1 dl	3A*	\times
Less than 3 dBA	4	Add	\$0	\$0
3-7 dBA		Add	\$2,000	
8-11 dBA		Add	\$4,000	
12 dBA or more		Add	\$6,000	
3. Achievable Noise Reduction	check one	7 dl	3A*	X
Less than 6 dBA		Add	\$0	
6-8 dBA	4	Add	\$2,000	\$2,000
9-11 dBA		Add	\$4,000	
12 dBA or more		Add	\$6,000	
Either New Construction or Pre-1978?	check one			\searrow
YES on either one	√	Add	\$10,000	\$10,000
NO on both		Add	\$0	
Reasonable Allowance Per Unit				\$45,000
Number of Benefited Units				19
Total Unmodified Reasonable Allowance				\$855,000

^{*} at Critical Design Receiver

Project: I-405 PA-ED	Project Loca	ation:	Date:	11/18/2010
Alternative 1	Orange Cou	ınty		
Noise Barrier I.D. & Location: \$708, \$710), & S718	(16 ft) / Sh	oulder &	R/W
Critical Design Receiver:	R2.20			
Base Allowance (2009 Dollars)				\$31,000
1. Absolute Noise Levels	check one	67 d	BA*	>>
69 dBA or less	✓	Add	\$2,000	\$2,000
70-74 dBA		Add	\$4,000	
75-78 dBA		Add	\$6,000	
More than 78 dBA		Add	\$8,000	
2."Build" VS Existing Noise Levels	check one	1 dl	3A*	> <
Less than 3 dBA	4	Add	\$0	\$0
3-7 dBA		Add	\$2,000	
8-11 dBA		Add	\$4,000	
12 dBA or more		Add	\$6,000	
3. Achievable Noise Reduction	check one	7 dl	3A*	>><
Less than 6 dBA		Add	\$0	
6-8 dBA	J	Add	\$2,000	\$2,000
9-11 dBA		Add	\$4,000	
12 dBA or more		Add	\$6,000	
Either New Construction or Pre-1978?	check one			> <
YES on either one	4	Add	\$10,000	\$10,000
NO on both		Add	\$0	
Reasonable Allowance Per Unit				\$45,000
Number of Benefited Units				21
Total Unmodified Reasonable Allowance				\$945,000

^{*} at Critical Design Receiver

Project: I-405 PA-ED	Project Loca	ition: Da	ite: 11/18/2010
Alternative 1	Orange Cou	nty	
Noise Barrier I.D. & Location: S708, S710	, & S718	(Design) / Sh	oulder & R/W
Critical Design Receiver:	R2.20		
Base Allowance (2009 Dollars)			\$31,000
1. Absolute Noise Levels	check one	67 dBA	*
69 dBA or less	✓	Add \$2	,000 \$2,000
70-74 dBA		Add \$4	,000
75-78 dBA		Add \$6	,000
More than 78 dBA		Add \$8	,000
2."Build" VS Existing Noise Levels	check one	1 dBA*	
Less than 3 dBA	V	Add \$0	\$0
3-7 dBA		Add \$2	,000
8-11 dBA		Add \$4	,000
12 dBA or more		Add \$6	,000
3. Achievable Noise Reduction	check one	6 dBA*	
Less than 6 dBA		Add \$0	
6-8 dBA	I	Add \$2	,000 \$2,000
9-11 dBA		Add \$4	,000
12 dBA or more		Add \$6	,000
Either New Construction or Pre-1978?	check one		
YES on either one	4	Add \$1	0,000 \$10,000
NO on both		Add \$0	
Reasonable Allowance Per Unit			
Number of Benefited Units			
Total Unmodified Reasonable Allowance			

^{*} at Critical Design Receiver

Project: I-405 PA-ED	Project Locat	ion:	Date:	11/18/2010
Alternative 1	Orange Cour	nty		
Noise Barrier I.D. & Location:	S733 (14 ft)	/ Shoulde	r	
Critical Design Receiver:	R2.34			
Base Allowance (2009 Dollars)				\$31,000
1. Absolute Noise Levels	check one	66 0	BA*	$>\!\!<$
69 dBA or less	7	Add	\$2,000	\$2,000
70-74 dBA		Add	\$4,000	
75-78 dBA		Add	\$6,000	
More than 78 dBA		Add	\$8,000	
2."Build" VS Existing Noise Levels	check one	0 d	BA*	$>\!\!<$
Less than 3 dBA	4	Add	\$0	\$0
3-7 dBA		Add	\$2,000	
8-11 dBA		Add	\$4,000	
12 dBA or more		Add	\$6,000	
3. Achievable Noise Reduction	check one	5 d	BA*	$>\!\!<$
Less than 6 dBA	I	Add	\$0	\$0
6-8 dBA		Add	\$2,000	
9-11 dBA		Add	\$4,000	
12 dBA or more		Add	\$6,000	
Either New Construction or Pre-1978?	check one			$>\!\!<$
YES on either one	4	Add	\$10,000	\$10,000
NO on both		Add	\$0	
Reasonable Allowance Per Unit				\$43,000
Number of Benefited Units				1
Total Unmodified Reasonable Allowance				\$43,000

^{*} at Critical Design Receiver

Project: I-405 PA-ED	Project Locat	ion:	Date:	11/18/2010
Alternative 1	Orange Cour	nty		
Noise Barrier I.D. & Location:	S733 (16 ft)	/ Shoulde	r	
Critical Design Receiver:	R2.34			
Base Allowance (2009 Dollars)				\$31,000
1. Absolute Noise Levels	check one	66 c	IBA*	$>\!\!<$
69 dBA or less	✓	Add	\$2,000	\$2,000
70-74 dBA		Add	\$4,000	
75-78 dBA		Add	\$6,000	
More than 78 dBA		Add	\$8,000	
2."Build" VS Existing Noise Levels	check one	0 d	BA*	$>\!\!<$
Less than 3 dBA	4	Add	\$0	\$0
3-7 dBA		Add	\$2,000	
8-11 dBA		Add	\$4,000	
12 dBA or more		Add	\$6,000	
3. Achievable Noise Reduction	check one	6 d	BA*	$>\!\!<$
Less than 6 dBA		Add	\$0	
6-8 dBA	✓	Add	\$2,000	\$2,000
9-11 dBA		Add	\$4,000	
12 dBA or more		Add	\$6,000	
Either New Construction or Pre-1978?	check one			><
YES on either one	4	Add	\$10,000	\$10,000
NO on both		Add	\$0	
Reasonable Allowance Per Unit				\$45,000
Number of Benefited Units				
Total Unmodified Reasonable Allowance				

^{*} at Critical Design Receiver